

<213> Glycine max

<223> unsure at all n locations

<400> 11851

ccacacgcga ccaccaaaac aacaaagcca gaacagacac acaacacaga acaaaccaaa 60
ccacancncc cagggccgca gttttgaccc ctgagaacac cccgaanagn naaagcccc 120
gagagcaaga aaaaaancaa cgacaacaaa aacgtttttt atcacaccac ccaccaaaaa 180
agacgggccg ggacggaaaa aaagaaacca cccacanaac caccgaccca cagaagaaga 240
acaacgcaaa aacaaaacag ccaacgaaaa cacacaaaa cacgacaccc cgggacagca 300
aacacgcgac gaccgcacaa caggaaacca acaaccgaca aaccaccaca gcgaaaacca 360
aacgcaaagc aaacaagcng aacacccagc acacaaaaga caacaaagac gacacaaaca 420
acaaaaacaa cacgacacca aacgacaaac accacacacc cacagcaaga acaaaccaaa 480
aaacaagcca aaacgcaacc ccaagaaacc caacaacgac gacagagcac aaagaaaggc 540
aaaccaaccc caaaacaaaa acg 563

<210> 11852

<211> 540

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11852

ggggcggaac gaggcgacga cgactgcann ctenggaaat nagccaacgg cccanangan 60
aagaaananc gagcaaccac acaannatan atagttattg aacaaggaaa acacaagcgg 120
ggagggagag gagaacggaa ggaacccac caccacacac aaacgaaaga agaagaggaa 180
gagacggang cgcacganga cggcacacac gaagacacgc agggcgacaa aaagcagcaa 240
agcaggccag acacacaaag cacggnaggc gacaccagaa aaacggacac aagcggcgaa 300
cncccagcca gaancgaaga gcgaacagca gaggcgagca aacggagaan aaaacaagaa 360
gagaacgcac aacggcagcg gaacaggacg agggccacac aacacgaagg ggnaccaga 420
aaccgcgaac gaaaagcagg caaaagaacc gacggcgacc acgggccgga accaggacaa 480
ccggaaggcg cgcagcggga cggagcgac ggaacaaaa gcgagcaaag gaagcaaacg 540

<210> 11853

<211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11853

ccaccaaaac cgcggaagaa acaacgaaac acaacgcgaa aacaccctaa acaaaaagg 60
 gcggantgac cccgagcacc aaacanaacc caagagacga agggacaagg aaaacaactt 120
 gtgaccaaac aaaccaacgg ggggggaaag cacacaacac accacaaagg ccaagaaaaa 180
 acacgcagac aaaaaaacia aagagaaaag agagacaaga agccgagcaa ccaaaacaaa 240
 acaaccgagc aacaccacac accaacaacac gcgacaacag aagaacacca caagagacaa 300
 cgaaacggaa cacaacacac agaaaaaaaa ggcaagacaa cagaacacac accaacaaca 360
 gaacacagcc gcagcaaaaa agaagagaca caacaagcaa caaaaaag 408

<210> 11854
 <211> 178
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11854

tgccttanat aggcacagaa gggacaaggc atgttatggg gttagttgag ctccggagta 60
 tgatgagtag cggctttatt gagcgcaagt acactcatcc acagcgtttg cacttcatca 120
 ggaggggtggg tccgtacta agcggagcct cagcgtacgt cctcagagga gacacgag 178

<210> 11855
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11855

agctntccgt antggtcttc gctagcgaaa tgatcgaaat ggggtctgaaa agaggtatat 60
 ctgaccatcc tgctttgatg aattcgaaaa ctggggcaaaa tgaagagggt gagaatgaag 120
 gagaaacca tgctgcaatt gtcattccta tacggccaag tttcccacca acccaacaat 180
 gtcattactc agccaataac aacccttctc cttaccacac acccagttat ccacaaaggt 240
 catccctaaa tcaaccataa aaaccacact accacacttc caatcacgaa caccaccttt 300

agcacgaacc anaacaccaa cgaaggaagg aattttgcag cgaanaagcc tatagaattc 360
accctaattc tgatgtcgta tgctaacttg ctcccatatc tactcgac 408

<210> 11856
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11856

atgaagctgt ctcggtacaa acgctccctt gcattctata accgnnggat cttctcaggg 60
agtggtttgc agcttcagaa gacacttgtc cagcatctga ccattgagat ctttgagaag 120
atgtttggag tgtgggagac gtttcagatc ccgagagcat tgctcacttg agcgtatcac 180
ctttgctttc atgtagctta ggaaaaatgt catttcttat cttttctttc ttccaaaacc 240
attgtcaatg ttccaagctt tgtctccatc acccatagcc accattagcc accacatacc 300
gccgttggtc tccgttaaata accccacacc gagagcaacc cttcaaccga agcggaaatct 360
tcc 363

<210> 11857
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11857

agcttatgat tctcattcct gngaattctt ggattggatg ctttaagtcca ttggcttccc 60
agcccagttc tatacttgga tcatggaatg tgtttcttcc acttcattta gtgtggcagt 120
caatggatct atttatggtc acttcaaagg gcagcgggggt cttagacaag gggatcctct 180
atccccctat ctgtttgtgc tttgtttgga gtacttttcc agagatatga gcagtctcaa 240
ggatgatgcc aattctaaat ttcattccaa ctgtgcaggt attcagctat ctcatcttgt 300
ttttgcagat gatattatgc ttctatctag aggagatata ctttctgtgt caactatgtc 360
tgccaagctt cagcacttct 380

<210> 11858
<211> 368

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11858

 attctataga ttaaacagct aattttctcan attatatcga tcacgttgga gtgactcaat 60
 agtggatact ctaattcgct ctattataat tgcagtcgta agttattcta tgcataccaa 120
 gaaaaattat atggatgaaa atgaataata attntacaaa tttaatctta tcattattaa 180
 tttatgtgta attntgggtt ctcttatcat taatattata agaaatatga gtgaaaaaaaa 240
 ttattacatt aaaaagctaa aatgataatt attttgaaat aaattttctt tctcacatga 300
 tgcttggtat gagatggagg gagtattatt ttgtgtgcta atagtacata tcactttaat 360
 ataacaca 368

<210> 11859
 <211> 403
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11859

 agcttgagta cntttgtang gctccaaggc tttccatcag ctctgataaa tctgccatat 60
 actcagccgg tattaggcct catgagcttt ctcatattca acagcttact ggatttagct 120
 tgggtgactt gccttgata tacttgggtg ttcccctttt atcatgtaga ttaaattgcat 180
 gtcattatgc tcccttgctt tccaagatta cttgcctgat tcagggatgg agcaccaagt 240
 ctttatctta tgcaggtaag ttagagttga tcagagcagt tattcaagga attgtgaatt 300
 tctggatgga gatttttctt ttgccgcaat ctgttctgga ccaaatacaac gttttgtgcc 360
 gtaatcttct gtggagcaaa gcggatattg gaaaaaaciaa gcc 403

<210> 11860
 <211> 321
 <212> DNA
 <213> Glycine max

 <400> 11860

 ctatccacta tatatgagaa atacactgca gcagtaagtt gttgtgctca aaggctctgg 60
 atgacacaac agctagaaga ctttgagta atcctttatc acattccttt aatcgattac 120

cataacttgc tttgtgggtg tatggcttaa ggttctctct tcattataat cgattacatg 180
 ttaggcttac agctttctct ggcattgtgt tctgttgtaa tcgatgactg cctcatttta 240
 atcaattaca tgctatgggt tatggattct tctggctatg tggtcgtatt taatcgatta 300
 caaatgcctt tacggagggg g 321

<210> 11861
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11861

agctngttca tttattatgt cttcaaaaga actaggcgat atacatgctc aagaatttca 60
 cgatgctcat gttcttttac aatcgatcct ttcgtaaaga acaacctgta tggatgcttg 120
 cacaacttat atatggccca atattagttc ttacctcatg gatttgaaca atatgagttg 180
 tcctctcttt gagttgattc ttccatttgt caaatgcaaa atgataactg cagctctgat 240
 cttgtgtccc taagaagatg agcaaaaaaa aaaaaagcca tacgggctcc aattgtgtac 300
 ataatattta atcaatttga gttgataatt taatgaatgt aggattacct tctcatccat 360
 taaaagcatc tccaataaac ctctctctgg agtcttttgt atg 403

<210> 11862
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 11862

gaaccactga gacttgctac ttgagtgata tctgtagtca gatatcatct tacattataa 60
 ctatacactg agaagttaga tacacttaga tctgatctgc tttaaagtga accaaataaa 120
 aactaacttt atacagcagt atacaacata ctaagaatct ctttgtttat ttaacataag 180
 aaaagagatt acgctactac tacgtgatca tgagctctat aacggtcagt tattccagat 240
 ttgggtgttta atacttcaaa ttatatagtg tgaatgtgta taatctctct ctct 294

<210> 11863
 <211> 406
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11863

agctntattc ttatgttgta ccattgttgc catgttgctc cctttatctc tagcattatc 60
tcttggaat cttaatgcac aaatgtatat gaaagatcaa tccactacct actctcctgg 120
tctgcatatc tctagggcca ccaatgttaa gatagttgct gacaaggat atccagggtt 180
accagtctag gatactgcca aaaagaaagg attctagttc tactacaacg aggagatgcc 240
ttcgaggaaa atgaaaatgg aaatagtcaa tcaccctcgg aattggggct ccctattcag 300
tggaagaaaag gcttctctgt gctcttgatg cttatgatgt caggaccttc tggaaccaga 360
tcctatggat ggacactcag atagcctcca cttctagcta tgatgg 406

<210> 11864

<211> 494

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11864

gaacgctgtt tttttttttt ctttttttncn nnncnnttag ttaagcnnac ngccgngaa 60
caagacgggn nacactgcac cacgagttca tttatttcta nccaagagcc aaagcgaggg 120
agcgcaaga gagaagacgc cccacacca caaagaaga gngaaccaga caaacggcg 180
agncagaacg accccacgag ggacacgaga acgaagaaca aacagagcgc cacgacagga 240
gacaacacac acacgcagga gacaacccac aacgaggggc gagaacacag acgccgcaca 300
acgaccagaa gaccaccca cggaaacaac aacaggagac ccaaagaccg gaaagacacg 360
aaggcggaca ccgagccaga gagcccaggc accacaagag ccaaagcggg agcaggagac 420
aaggcagaca aacgcgacgc caagcgagaa gccanaagcc aagacaggag aggcaccgac 480
cagaaagaag cgcn 494

<210> 11865

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11865

agcttactcc cactattacc cacaccaccc accaaaccta tcaatgttaa gaaaatgaca 60
 tcggcagaaa tgcagttgag aagagaaagg ggcctatgct ttacttgtga tgacaagttt 120
 tcccctagtc atcattgtcc taataagaaa tattttgttc tacagtggga agaagaggat 180
 gaacctgcat tacaaccagg tccaccagac gaggttgaga cagttggtga cccagtttg 240
 taagatcatc atttgtctta taatgcttta aaaggctcat caggtcttgg aacaatgaag 300
 tttcaaggat caataaatgg attgggagtg cagattctac tagatagtgt gaggttcanat 360
 aacttctcc agcctagact agctcaatgc ctgaagttac ctatagaa 408

<210> 11866
 <211> 309
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11866

acttgatatg gcctacccaa gcttaaaata ataataacaa tatttgcttt tattntttgt 60
 cattgttact tatttatgaa tatggtttca gtgaccatga ttgaatctac ttatgagttg 120
 ccaagtataa aattaatccc attgaatcaa ttatatatttc tggtcacctt cttctgattc 180
 ttaggagcta atgattacat tcttccagac ccacctattg tctaataaat tgaagacagg 240
 acccagatat gataataaat atggattatg tgaaatgctg actcactttt ggtttacaat 300
 ccattctat 309

<210> 11867
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11867

agctnngtan aaccaaccaa tcagaatgct agacgaaata tagatgggaa tagaggtaac 60
 aatggcggtg atgacggacc gaggcagaac cgggttgagg gagtaaagct caatgttcct 120
 cccttcaaag gtagaagtga tccagatgcc tacctggact gggaaatgaa gactgagcac 180
 gtatttgcct gcaatgacta cactgatgag cagaaagtca agctagcagc agctgaattc 240
 tccgactatg cccttggttg gtggcataaa taccaaagag aaatggtgag agaggaacgg 300

cgagaggtag atacatggac tgagatgaaa agggatgatga gaaaaaggta tgtgcccact 360
agctataaca gaaccatgcg acagaaactc c 391

<210> 11868
<211> 493
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11868

nnncttcctt ggttttagacc ttcnnaganc nnantcatan gaaaccaacc nncacagcnc 60
ttngaccttg gcttggnnag cnnncacttt tttctttatt aaanggagca angcctgggtg 120
gcgagaagat ggacatgtac ctctctcatg gatcctccat ttgagccttc caccaatttg 180
ctttcaaagt aaacctttct caatgtgtca gccaaaggcag tgcccccgat tatgctgaag 240
ttatatacat aggctgcctc atcaattgca tcaactctgt gcagcacata ctttggttttg 300
gcacctgcat atgcacccat taattcatct aaataaaatc atgactaatt tcattaattt 360
tgactatgta ttataattaa cggtttaaat aattggccgc atagtattat tgcggaattca 420
tcaggtcgtt gatattgcaa tacagtacag acaaatatga ctgatgcaat cccagataac 480
acaccttgat gcg 493

<210> 11869
<211> 259
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11869

ccccacaaac caaaaaaaaa aagaaacaca tcnaccccg caccgacca aaaaccggn 60
naaaaagaaa aagttgaaaa aaaaaaagg agaaaaaccc aangagaaga aacgaaaaaa 120
agagaaagga gagagaagaa agaagaaaac caaacacca ccacaaaaac aaacacagac 180
gaacaccaa aaagaaacca agcagaccaa caacaacaaa acacacaaca aacaaaagaa 240
ccaaacaaca caaccacac 259

<210> 11870
<211> 374

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11870

 tcggacattc gtgtgaaagt tatgatcatt cgaatnnttc aagagcttcc gttgntcaat 60
 ttctagcgtg tcgacatatt atgcgccaga atagaacatc cgtgtganaa gttaagacca 120
 tttgaatttc tcaagaactt cggttgttca atttcgagct tcttgacata ttatgtgccc 180
 gaatcggata tccgtgtgaa aagttatgac catttgaatt tcgcgagagt ttccgatggt 240
 taatttcgag cgtatcgata tattataagc ctaaatecga catccgtgtg aaaagttatg 300
 accatttgaa tttctcgaga actttccgtg ttcaatatca agcttctcga catattatgt 360
 gcctgaatcg gaca 374

<210> 11871
 <211> 399
 <212> DNA
 <213> Glycine max

 <400> 11871

 agcttgtttg tatcgacat gcttcgggga gatgcggtga aggatgcaaa atgagccaaa 60
 agatgcactg tgaaagttgc aacagacaga gggtgcacga gaaactcaag atgtttgcgg 120
 taagtgcgag tgtactacta ttgcacttca cttagccatg tattgagtaa ctgccttagc 180
 gagacgatcc gctgagcgag agagacattt ggctttacgc ttcctctctt ggcagccaa 240
 catgggcccc tgtaagattc tttggcttac cgcgccatcc gctaagcggg agcgagagac 300
 gtttggttct tcaacatgct cgcttatcgg accgttctac cgagcccaat cccaaattat 360
 gaaattctta tatatataga actgcgctta gcgcacagc 399

<210> 11872
 <211> 558
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11872

 nnnnccttct anccccgannt tgcnangnnn tncnncnncn natnagaana ancaaccnng 60
 gcgaccagca cccagaagcc cgatgcnang ngcaaccaat ttgtgtnttt atactatacn 120

cacaccacnc gggggagcgg ggagaatata tcgaattaat acctcctgca cccctcatc 180
 atacgcatat actattacat ctgtactaac atgacatcgc gatgtcgcgcat ggacatctca 240
 caatanaaca tcactctgct ctaccttgat cttcagaagt aatatcttgc aatttaacct 300
 taataactcc acctctaact gtatacatta caccgattgt caacaatgcg agaactacac 360
 aactatgcc aagagagatct atattccgca tgacgcccac taccacacat gatacagtat 420
 actgttctat acgcaccatc tcttagactc tgtcaccttc acagacaact atcctccgca 480
 cttcatacta tatacaattt gatggtgaga tatctaatac aacacatttc acagcacatg 540
 aatttaatta catgaccc 558

<210> 11873
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11873

gacacgccac cagaccaaga agaaaaggaa ccaaaagacc acccacacac aanncggggc 60
 gacctgaccc cgaaccccg aangaangnc ngggagnnag aggganngag gaaagcagag 120
 agttggaaga aaaagaagag annaaagggg gggggaaaga aaaaaaana agaagaagga 180
 ggaagagaga aggggaggaa gaaaaaagag aaaggaaaga aaaagaaaag ggagnagaga 240
 aggagggana gaaaggaggg caaaaaagaa aaagaggaag agaagaanga aaggaagaaa 300
 aagagaagaa aggaagagag gagggggaaa gaagggaagg gaaaagaaag aggaagagan 360
 gaaggaagga agaaaggaag gaggaagaa gaagagagga gaaganaaaa aaaagaggga 420
 aaaaggaagg ggaagagagg aggaaaanaa gaaaggaagg aagaagaaaa 470

<210> 11874
 <211> 194
 <212> DNA
 <213> Glycine max

<400> 11874

ataagtagat gcatgtgtaa cacgggggggt aactgcgatg agggagagtc tcgtgagaca 60
 cagcttaaag atgagcttct ctccctatct cgctcttcag tagcgagctg caccctcttg 120

ctatctctcg ctctgtcatt tactcagatg aggcacccctc tacatgcttc ttatgcacag 180
ctcatcttgg aggt 194

<210> 11875
<211> 402
<212> DNA
<213> Glycine max

<400> 11875

agcttgatca gctctatagg aacggctttc caggttccgg tgggtggtgcc ggtgggttta 60
ggattcgaat tcccactggg ttgagcgcgc cgcagcagca gcacccctgga tctgcttcca 120
aggtgtttgg gaaggttggg aatcagagat tcagcccca tttgaatcaa aaccctaacc 180
ctaactcttg gaagaagagg gagagagacc ccgtgggtga agtgggtggct gcgattaagg 240
tattgggaga tgggtttgtg agaatggaac agatgaagat ggagatggcc agggagatcg 300
agaccatgcg gatggagatg gaaatgaagc gcactgagat gattctagaa tcgcaacagc 360
ggattgtcga ggcatttgcc aaggccgttt cggataagaa ca 402

<210> 11876
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11876

actcaagctc ttagctnta tgttgaaagt cctcactacc aaaataggta gcatanatat 60
ttttgtcatg aagttgcat ggtgatgcat gtaatactgc tggttctgtt atgaatgtcc 120
catagtactt agaaattaag tgtttcatat atatagaagc caatcaatta aacaagataa 180
aatgggtctt gatccctcta ttccaattag tatcacttcc taacctcaa ccattgacgt 240
cccttgcata catgactctt tacatctgga caatcaatgc aaccagtcgc acattgctag 300
agcatgttat atatgttcat tccacggctc ctgacatgac ttgatcttat atatataaac 360
caattcaata atgaaatctg a 381

<210> 11877
<211> 396
<212> DNA
<213> Glycine max

<400> 11877

agcttgcttg aggctggggc tttttgcaac gtgtaagagt tctaattaac atttacatgt 60
aatatatgta aagaagatta aaaagacatt agacaccgtc tgtagtttga gattgacctt 120
taagatgaat ttcataactt aattaaggaa tctataacaa cttaattatg gtcttataaa 180
taaaatacaa aataagtggc tcagttcgaa ttactttgca atgctagtat ttttttaaaa 240
gcattttgct ttgctagcta gtatgaactc ttaagataat atttaagtgt actcgagtta 300
atTTTTTTgg atatgattga tttctcttac tagcattctt atttagataa acaataacat 360
agcaaattt tctttacata gcctatcaaa aaaata 396

<210> 11878

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11878

ngntgttatt ctccgatata agtgatagaa catgaaatca ggtttgnttt atttattctt 60
tcgttccatc ggagaaaaatc caaacaataa aaagggttcca gtccactcaa tctctattaa 120
atatctagac attgtcctac gaattgttgg tattttttgg tatagctttc tatctaaact 180
agacgagcaa tataattgag caggtttctt taccagcatt tcttttggca ggagatagt 240
tattctcctt gctgtttttg ttatctgatg atcaataatc taatatagtt atgaatccta 300
ataactcttt ctgaataaat gcagggatta tggctggact tgcttttgaa ggtagctgat 360
tgtttctcta aattgtttga caatgtttac caattntatg aagaacattc agtgcaccgg 420
tcacaatgac ttggcacttc tccacacttg atagttaggc tgcatttgca tcacac 476

<210> 11879

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11879

gacctctaa gtcacctgct gcatgcaagc tntacactac caagatgatg cagatcggat 60
ggatggcagt caaattgtta gttgtagact attgtgcaaa ctagttactt gtcaaattga 120

agttataaaa aaaaggagtg ctttcaagtt tttcttacca tttgtagtgt gaaatttgaa 180
 atgatcttct atatatgaat gaaggagata atagatagat ggagtgggtt tctttttcgt 240
 tatggctgtg ttgcttagtt tctttctttt tttcgctcgg agtgaaaaag actacatatt 300
 gtacacattc tattgataac aagcatgtct ttctctactg ctatgagtgg catgccaatg 360
 atcaagattt tagcaatggc tcttcttggt cttccccaat gaattctaaa agaagaaaat 420
 caccaattga atcta 435

<210> 11880
 <211> 193
 <212> DNA
 <213> Glycine max

<400> 11880
 ttacaagcca taactgacaa accatgatat caccttaccc ttaaagaatg ttggagctct 60
 ggaattgctt ctgaaataaa ctgggaataa gtgtgggggg tatgcttcat tggaagatat 120
 gattcttggc catgcttgat gtatctgaat attgcctagc tcttgcttaa tcttcaaadc 180
 cttctccaaa aac 193

<210> 11881
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11881
 agcttctnng tcnatcaggc caacttacaa cagcaagcgc cgagagactc agcataagga 60
 tgcacatgcc aaagttgagt atgtgaaaag attgtatgac caagtgaagg tgccaattgc 120
 aaagaagaat gaaagctatg ccaagcgagc caacaagaaa aggaaggaag tggacttga 180
 acccgatgat gatcctgtac atttgatggc aaatgttgtc caagaaggaa ggaatgatga 240
 gaatcctgat actggacaaa tgcaggctaa aggcccaagt ggagaagggg attggcccag 300
 gtggagaaaag acgaagtccc cgagtggaga acgatgaatg cccatgtaga gaaagatgaa 360
 ggcccagagg tagatgcact accaaaacta ttaattattg ctaaa 405

<210> 11882

<211> 325
 <212> DNA
 <213> Glycine max

<400> 11882

agcaccttct tcaacagatc tatgtccctc tccacaacac cattctgttg aggtgttctt 60
 ggcgttgaaa atttatggtg aattccatgt tcttcacaaa agtggtcata ggactcattc 120
 tgaaactcac ctccatgac actgctaatt gaataaatgt agagaccttt tccattttga 180
 attaccttgg taagtgtgcg aaaaacatcc aaagcttcat ctttggttgt cagaaacaat 240
 gtccaaggta accttgagta atctccacta ttaccaagct atagtaattt ctccctaacct 300
 atagctctta aaggacctat aatca 325

<210> 11883
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 11883

agcttgctta ttcattggaag ctccataat ctccataact ttttgggggtg ggccattctt 60
 ggatggcctt gatttttctca ggttccactt aaaaccatt tctaccaact acaaacccta 120
 agaaaaatat attatctaca caaaaggtag acttctctat atttgcatag aggggtgtttt 180
 tcctaaggac tgaagaactt gcctgagatg ccctaagtga tcatctagga tcctactgta 240
 cactaaaata tcataaaaat aaacaactac aaatctacct atgaaatccc ttaagacatg 300
 atgcataagc ctcataaagg tgcttggtgc attagtgagc ccaaaggga tcactagcca 360
 ttcatacaaa ccaaacttgg tcttgaaagc ggttttccac tcat 404

<210> 11884
 <211> 113
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11884

agctntaatt tatgtggcag gccactacat ttcataattga attntatcta tttatacctt 60
 aattggaaac caaattattt taaattaatt ttttttttaa attacattct aag 113

<210> 11885
 <211> 259
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11885

actcctacat gatgatgcat gatacacata tgatttatag tgactaagat gcaacanaca 60
 atacagcaat atagagagtg gngcatgtaa aagataaatc ttcttcaagc tcttcttcaa 120
 gttctaaggc taagtcttca tgttgctccc ctatccctaa cataccctat gcaatagtaa 180
 tagtagactc taaagtccan atattgaacc caaggaccag ggtatncaca gttaaaaaga 240
 aaatagatta aatcctttt 259

<210> 11886
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11886

caagcctncc atttattgca ggtagcacca gacatctcta taaagactcc ttatgaaatg 60
 cacatcacct atttttctat tctcagcatt gacttaggaa tatagtcata acctgtacaa 120
 gaacaggat gagtgggagt agaattctgaa ccgccatcag aacatacata ttttctcag 180
 ggcccgtgta actcgatcat agagttcggg atcactctaa tcaactcgga gatgatagtg 240
 atgcacaggg gaaaatctct gatgtcttca ttgatgctct tctattgcaa gaagaaatgg 300
 atgcaatggc aacttttagt tegtctcagt aaaaccagtg gattcaattc agcttttctc 360
 gattattaat aatgtcttat tggcgtaatc tacttctgat aagataacag tttcatattt 420
 tgcttctg 428

<210> 11887
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11887

naaccctctg ttgngngaac gtttgangna cnnctncna natnagtnaa gcnaccncgc 60

gctgctagca agaactntat ctctnggaag aggtttgttaa tctgtgtggn.cagccaaggc 120
 aacagtgcc aattggcaaaa ctgaatgtgg ctcataccca aaaactgcat gttgggcaca 180
 ctgtttgttac aatgaaagag ccacgaacaa aagatacaag taaacagtat tccaatgact 240
 tattaggcaa aattatgcag acaaattaac ttcaagactc cattcaaaat aggaaacaga 300
 ttctatgttt cttctaatat atgtttccat ttcaagagag ttcattctat gcagggaata 360
 gggagctcaa acaaaccata agcacgggta ggatcaaagg ctctcatatc ctctacgtga 420
 agcgtgatcg gaaggtaatt gcaagcgtgc ttgcatatga acctgaaatg taccaaaata 480
 ccaatagtga gatttatgag accn 504

<210> 11888
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11888

agcttattaa ttgaaagttg ttctattgga agatcagata aacaaacatg caagtatcat 60
 tcctagaacc tacattctat tccattgtga ctttacatct aatctgactt tagttgtgtc 120
 caatgtgac aacctagagc atatttgtat ttttactctt gcatgcttag ctttaaaaac 180
 tagtgccaat tttgaatatt tttgagcaaa aacattagtt cttagtttat gcgtatttta 240
 tgtatacaat tccttctgtg tgtggcagtt gagaggggtg aacgagaagg atgatgttgt 300
 agctaaatgg aagaaagtgc anaatgatat gtgcctacat gctcattgct ttgttagtga 360
 tccaattcc ttcttgatt tggctagtga attgagatat cacatat 407

<210> 11889
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11889

aggactcaag ggagttagtg tggagattac tctnggatgg ngatgatgct attctgngac 60
 ttgcatgaga aggacctgtt tgagaagtat ttcacacggc ttctggcaaa gcaacttttg 120
 tcccgaataa cagtctctga taatgcagaa agaagtctca tagttaagct caagacccaa 180

tgcagttatc aattcacctc taaattagag ggcattgtta cagacatgaa aacctctcta 240
 gaaacattgc tgaactttta tatgccaacc accccgagtt aagcaacggt cctacgcttg 300
 ccgtgcaggt ttgacaaca gggttttggc ctactcaatc tactgttaca tgtaacctgc 360
 cagaagatat ctcttcactt tgtgagaaag ttcagtcata tattaccttg gcacacatac 420
 tggcaggaga tngtcttgca nactaatat 449

<210> 11890
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 11890
 agcttatcta cttataaatc acgtgatcat gaattccgaa atataggggg agtaaacgca 60
 tgcacattgt atctatatac aattgtttgt tgcttgcttg aatcttgatt tcagggtattg 120
 tattgtcatc atcaaaaaag gggagattgt agatgcaatt gcctttgacg ttttgatgat 180
 gatcatgatg atgtgttgca attgatgcaa atgggctttt caagattaaa attcaagaca 240
 atacttcaag attacaagtc acaacatcaa gatgattact agaattattag gaagggaatt 300
 cctaattgaa ttagcaaagg ttcggccaag tgatttgaat taaaaaagtg tttcgcaaag 360
 gttttactct ctggt 375

<210> 11891
 <211> 493
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11891

agnnccctcg gggaggcctt aagnnatgca tncacactat agattactca acctngagat 60
 gaagaagggt tgaagggtga aacttcctgt tttattcggt gaccacagag tggtacctgg 120
 agatatgtcg cgnggtgcaa gagaccttgn ggacgtcagg tggngtgcta ttgccccaaa 180
 ccaagcttga ccaatcccga cccaaccgga gcatagtcgg tcagtgaagaa cttgtgatgt 240
 acctaaacag acgagctcct ggcagtcaac agataaaagg acaaagacc acaaagcaag 300
 gaggcttggt gtggctggcc agctgcgaat attgtgtgat atatgggttg tggcctctgg 360
 taatcgatta ccaagggtgg gtaatcgatt acaaggctta aaaatgaaaa caggaggcta 420

agatggtctc tggtaatcga ttaccaacgg gtgtaatcaa taacacagct tgtaacgatg 480
acacgacacc acc 493

<210> 11892
<211> 575
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11892

caccacccgc gccttacgag ccgacacgag gagacangcg aagtcgccga caccgccaac 60
acagacacac caactcanna cnaannaaaa annnggcgga gacgagccct cgaacaccca 120
cnnnttngaa aannnccnng gggnnnnannn nngggnnnnnn ngnnnnnnnn nnttttggtg 180
ngggagaagc gaaaaaagng gaagggggag gaagagagag anagagcgaa ggaaccaaag 240
ggaggaagag ngaagggaaa gagcgaagag gaaagagaga ggagagaaga agagaaaaaa 300
caaacggagc aggcaaagc cgaaccgaca gacacacca cgacggcaac caccgccaac 360
cacgaaaaac tcacaacaac acaccgcacg ggacacgacg aaaaccaca cacaccacca 420
caccaagcac agcggacgcc caagcgccac gcaacgccac acagacagaa cagccagaga 480
gaacgcgaca cagaccggg aaccaccaac agcacacaaa cggccgcaag cagccgaaca 540
acacacacca caccacacg ccaccaacc aagac 575

<210> 11893
<211> 343
<212> DNA
<213> Glycine max

<400> 11893

atctatatat ggtgtattac aagcctcccg tcagtggtag cttatgtttc atgggataat 60
atcttcaggt ggttttgatg ataatcccat gcataaatgc atataccaca tagttagagg 120
gagtaaaata tatattcttg tttacatgt atatgatatt ctactagcag ctaatgatcg 180
gggttgctca catgaggtga aacaatttct ctctaagaat tttgacatga aggatatggg 240
tgatggatct tatgtcatcg acattaacat tcatacagat agatctctag gtattttggg 300
tctgtcacag gaaacctata ttaacaaaat tttagacaga ttt 343

<210> 11894
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11894

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 ttctattgcc atgatgaggt catctatagt tttaggagcc tctttgtgtt gtaatgactg 120
 aatggcatta aagaagccaa gatctaagac attaaaatca agcaagtttg ggggttgaga 180
 aaccaatcga atgtcaaaac cgccttcact agcagcttaa tggaagtcgt tgtcatcttc 240
 atcaatgtga catggagcat tgtcttggtt tatgaaaata gtttctcttc tatcccctat 300
 tggccatttt gctttgattg cagacaacac atgatgaata agaaaatgtt tgcttacttg 360
 cttatttatt gaagaatatt ggtntcgttc catagtcctt 400

<210> 11895
 <211> 492
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11895

nnncctcttt tccaatttgc anagatcgct cnnncnnata gaananacaa ccccgcggnn 60
 gctgaggatg aaattcgaag actaaaactt tattatttta tgatcnaact ctcgagaagg 120
 gggatgtatt tatatcatac aaacagcgcc atgattcaat acctctatca aaagcattga 180
 tttgtatagt tagagtgttt ttcttcttgg ttctagatag tagatactaa acaaaaaacat 240
 actaatacca aggggggtcta gctcagatgg ctgagcacgg tgcgtaaagt ttgtaaatct 300
 cctgatacca tgttcaattc ctatggatta aataaaacac caatgagacg ctttaagtta 360
 tgaattatag cataagggaa gtctactaac gccagcgtgg cttgtgtgga ctttcagatc 420
 tgtccgcgct aagataatta cctaaaccct tatgtttata tgagacatga acatgatctc 480
 catgagctat cg 492

<210> 11896
 <211> 572
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11896

accccccaaa ctagaacgtt gagcttctgc aaaacanacg ncgaatntga gcanagaacc 60
ccgagganga ctctagaang cgagcttgac aagcgaagca aancncacgg gtgngcgtac 120
ggacaagaaa cagcacggcn gcacacgagg gcggcatgtg tgagaaagac ataacgcccc 180
caccgcacac ggacgcgaac aaagggagat agacgcgacc atccgagtgc gccgaactgg 240
agacaaagag agcgacggta cgcgcaanac gagaaagcgt cgataccgac agcgagtgcg 300
aggaccacga agaggcgac gaagcgagag tgcgaagcaa gaagcaagcg caacagcaca 360
ccgggacacc cacaacgcca acacgtaagc ggagagaaga cccaagggac ggggacagag 420
caacgcgcat ggggaagccg aaaagaaacg ggggagaggg aacaggacgg gccaccgacg 480
agcgacaagc gtagagcgta agggacggcg aacggcgaaa ccgacgggca cgcacggggc 540
aacagcgacg accgaagcag gagcgaaagg cg 572

<210> 11897

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11897

cccaggcttt gcggtagaac tgggtgcatg aagctaagca cctgncatgg cggctaagct 60
gaattccttg cgggactgta agcgctaagt gaggccttat cagctaagcg catacttctc 120
tataactcaag atgcatcatt ntagctaagc tggcccagaa cccggcttag caacagttgc 180
atcttttcta atctgcagac ctgcgctaagc ggacttatcc gcacgctaag tcaagcctgt 240
gtgctaataaa aaaaacttga atttcatagt taggctaagc gcacgggtgcc gcanagcgag 300
catcttcgaa naaccaaacg tcacttcgag aaagcaaaat ggcttatgtg agtgtaacgg 360
caactactct cacatttggt ggaaactgat gtattgctg catcntctct cttgactca 419

<210> 11898

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 11898

agcttcttat aagctgaacc attttatcaa taaacacaag ttgagtttta ttcagaaaat 60
 tagagtttat ctcttttata ttagtgagag tgattctcct aaattcttga gtgattcaag 120
 aacaccttgg ctgtatcaaa ggactttcac aacctttgtg tgttgccctc gctggaaaga 180
 gtgattcttt ccttcctttc atcatcacc ttgttctttc aaccacaaat tccaaaaaat 240
 ccacctctgc ccagaattat ctctgtggcca taactcccat tntacgcact caaattaagt 300
 gattcttgag cctaaattga atttcanaac gagacctttc acctcgttgt ggaatcacct 360
 catttgagc cctgtagctt cagntattgc catttctata t 401

<210> 11899
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 11899
 ctgggggtcaa ttacgagtgt cgcgatatcc tacggcacac aataggacat ccgaatcaaa 60
 agttattacg tgggactgtt cctagagctc ccgatttcaa tctctagcgt ctcgatatat 120
 taaggggctc aatcggacat ccgagttaa agttattgtt gctcgacttt tcttagagct 180
 tccgctgtca atattgagcg tctcgatata ttacagggct cgatgcgaca tccgactcaa 240
 aagttattgt cgttagatct ttctcagagc ttccgttttc aattacgagc gtctcgatat 300
 cctacaggac aca 313

<210> 11900
 <211> 228
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11900

agcnnttang tggttgaagt gtatgtggaa gagggggtgt ttgacaaatc tgaaaaaaag 60
 ttgaatgatt ttaagggaga tgagggtgtt gtaattgatg gagtggaggc tgaaccagtt 120
 gtggagggtg aagataaggc tcagggttcaa ctgatgagg aaggtttggt ggagggttag 180
 gtgcaggatg aagatgaggc tgggtgttgta cgtgagatgg aggttggt 228

<210> 11901
 <211> 499
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11901

ntgtgataat tagcactcaa gggaggtaga actaagaact ctgtgtctca gactactatt 60
 caatattaca aagtcaaggt tatgataaaa ataaaaaact atactccctc ttttctcana 120
 tataagggaa aaaatgacat actaactaaa aaaagttact taaaattttc ttatatttga 180
 gaccaaaaac aatgtgtttc cccttctcat atttgagacc agagaaggag taactcatta 240
 gattccaaac cacatgcaat gtatctacca taacagataa gtccatgaaa tgcttaccaa 300
 tctgatcaat ctggtgattg atcataatta ctgaaatcct ttgtaaatcc aaatcttaaa 360
 aggtgggcct aagttattgc ttttgaaatc tactggaact attcaataga nagagaatgt 420
 tcagaaatga acgaacctca accaaaatgc caagtttcat actcntttct taaggcaaga 480
 atatatatgt tgaaataat 499

<210> 11902
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11902

agcttgtnat gnttttttct ttcgatcaaa gcagagtatg gtgtatctgc atcaacaagt 60
 aaatatctta ttgtgaagtt cttagagaat tggccttgac caaaagtggc cattaggtcc 120
 acgtagcctc aggtctctac tctttcgcct gcaaagccaa ggagtggacc gacgtgagga 180
 tggacagtgt caggggagac ctcgagtctc tggaaagttt tccagtatag gatatcattg 240
 gagcttccct ggtcaatgag aaccttggac accatgaaat ttgcaatgat gatggagaca 300
 accatgtggc cgtcctgggt gatgggggtg atacccttga agtccctatc cgtgaaagtg 360
 ataggagggg gactttattg tgatgggtgca ttgacgaaat tgatgt 406

<210> 11903
 <211> 495
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11903

cacatagata ctaagctgct gcnatggag ctctntatc tcccacactn nttggttgga 60
ccattcttgg atggccttga ttntctcaag gtccacttgg accccatttc taccaactac 120
aaaacctaag ataactatat tatctacaca aaaggtacac ttctctatat ttgcatagag 180
gggtgttttct ctaaggactg aaagaacttg tttgagatgt cctaagtgat catctaggct 240
cctactatac actaaaatat catcaaaata aacaactaca aatctaccta tgaaatccct 300
taagacatga tgcataagcc tcataaaggt gcttgggtgca ttagtgagcc caaaaggcat 360
cactagccat tcatacaaac canacttggg cttgaaagca gttntccact caatcacctt 420
tttcatnctg atttggatgat accactttta gaacaatttt gaaagaattg caccatcaac 480
tcataagcaa tcatac 495

<210> 11904

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11904

agcttgtatt gnattttcca ctacatcaat tgtacctatc tagctactta tatectgaat 60
caaacatgaa ttagaaaaga aagttaactt gatatagaga ttaaattgaa attgaaagat 120
ggcaagtata acacatctac taagtgtaaa aattcaataa atttgactgt tccagagtgt 180
atggctatga cttgttgact agcaggcagg cgaactacta tggaatttat ttctctatat 240
gtagaataac aagtcaatga ggatgcaata tgatctgtag caccagaatc caaaatccat 300
gttgtagcct caagcttgtg agcattacaa ataagggata gtatatatta cctatgcttg 360
atgtatgagc agaacttgta ccaatctagt taacttgtga tccacgagag 410

<210> 11905

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11905

cgtccattag tacaaatagc actattattg accttgaata tntttacatt aagaggcaat 60
 aatgtttgca tctgatattt gaactgtatg aaaaaaaat aaaaaattac atcatgaccc 120
 ctgaaggtct cggtgtcacg ataaaacaat actttggacc ggcttcaaga agctctcgca 180
 cgcctacgtc catgactctc gaagaccag agtaagggac acaaaaaaat caaggaccaa 240
 ctggaggagt caatcactga aaaagtgact cgacaattaa tgttgtcttt cagccaaatg 300
 cagtcccaaa tgcaatcgca actgcaatca caaagactca cactgcctcc tgagcttgaa 360
 gttgggtcttt ctgctgctcg t 381

<210> 11906
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11906

gccttgtnat tgagattana tggcggngaa tcatgtgana gggcgcatcg ccattatccg 60
 actctgggtca cttttagggt gatagacaag aaccgattca agaaatctag acaccatact 120
 gtgcgcataa tagctgttgc ttttaaagaa ccatgaagat gtagcttgct catacaacgt 180
 tgaggatacg taggagcaag aacgcctctc catattgcgt ccaggataga ttctagcata 240
 tccgagcgggt caatatgtat agaaatgttc tacggaccta cactataagt tattgagcca 300
 cccaacgggt aacgaatcgg aacgaagaca atgtcactgg tgtatttgag tcacgaaagc 360
 tgtggcattg gaatgcgtat tgggcagagg tttctttcat ctgccctatt ctcttggtc 420
 g 421

<210> 11907
 <211> 490
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11907

agentgatgg cctggggcta aagatatcan anctagataa tnaagctcga aacagtaata 60
 acatttgtaa catggctgct tagcatgtat ttatattgcc tttacatgag aacaaagga 120
 ggggaaatat atgtggaaaa tgaacacgag gaagtagana ataattttct ccttccttga 180

ttt gat gccc cacat gaggc gaataaatg ctcagaaaaa ttaaaatcac atactcttcc 240
 atataagaga tttgtcaaga tattattnta aaaagaacca tatattttta cattgtgaga 300
 agttccttaa ggtcaagtc cacacagtta acaccgcgac aactgattgt ctcaccaaga 360
 actctaataa cacactactc tgactcccac agtagcacta tatgtgtgtt caattcactg 420
 tgtcaccaca ctgaatgtga tttcatttat tgagaagagg attgatgttg aatgtgcctt 480
 atacagaggg 490

<210> 11908
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11908

agcttggttg tttatgggg acccgtcata tgtggtacta ggtggctatc gggcgatgg 60
 gcaagtcgac tctccacatc cacaaatcac acataaatcc accatcccaa gttgcccacc 120
 ttcaactgag ctcacgtagt cccacgtagc ccttatcctg attcctctca acaccgggtc 180
 cccatcaatc cctccaagct tccataacat ccaagcaatt caacatccaa acatcatgaa 240
 ttatcagaac caagaaaaca gggcagaggc agaaaactct gcccaaaaca caaaccaata 300
 ccacagcttt ccttactcaa ataccccaat aacattctct ttgttgcaat tcgttcaccg 360
 ctggatcgac tcgaanattt tactggaggt ccctagtaca taagt 405

<210> 11909
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11909

actcagctct agaggatact aggttgtcac ccagtagggc ctccttaacg tttggagccg 60
 gtctggtggat gatgatctgc tgatcacagg cctagtgcct gctcgtagcc gtccctgaga 120
 attggttaag tgggaaatga cattatgctg tgaaacatgg ctacgctacc acttacctcg 180
 gttcatccct gtcttgatt tggcgccgta ttgaccatcg cttgaaatga tcttgtcctt 240
 gtctttcgat tcataaaata aaaatgcatg tgcattgtga tgtatgagca gtttcaaaag 300

caataattct ttagcaaaag cctgttgggt tcagttntaa ttaagcgctt ggggcatccn 360
catggatcga gcanaaaggc tcggatcatt aaaagaatac gcatctttta aggacananag 420
cgaggatcag aacaacgaat catc 444

<210> 11910
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 11910

agcttgtggt tctggagatt caaccctctg gctcaataat attttaccag gaatgttacg 60
acccttgagt aaccttcaca aaggaaaaat ataaaactat aaattcccat aaattgtata 120
aggcatgtgc ttccatgaaa tgcattttca aagcaacaat aatccataac actacgaaaa 180
gaaggttccc aatttgactg aacggaatac agtcacatca gcattggatt caatcagaca 240
cacataaacc atttccaacc atttcttaga atttcaccct tcgaaaattc gtgatcttaa 300
tgccaaaaaa attcaaattt ttttaaattg gttttctaaa tccgacggat gaaaacatta 360
ngaagtgaag atcagcgaat caggcattga aattcttgag atcacga 407

<210> 11911
<211> 329
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 11911

tactntggca acagaagggc attaganaag atcatatctt cttatatctt ccattgnnnc 60
aatngtataa tttcatctaa acaatattca gaaaaaatga aagaaaatat cctcataaat 120
catgtttgct atctccccta ctaaataatt agactccatc tatacctcan accccacgta 180
ggatttatgt acaaacagac gaaagagggg gcaaaaaata agtgaaattt aaagaggacc 240
ttggacaact ttcaataacc aagtttagtc ccactctgcc tatctacca tgcacgtta 300
agctaagcta tgtactcatt caccttttg 329

<210> 11912
<211> 405

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11912

agcttnatcc tcacgtccc tcacagtctt tagattgggg agccaatcca atccttgtgt 60
tcggactctc agccacttat gatagccgcc gatgatccca ttactgcttc ccctaagctc 120
tctgtccttt cttcacgccg catcccatgc cttgccaact ccttgagta ccctcgcgtt 180
gtggtcacta aaaccccggtg cgatgaaagg cgtgatgctt tcgtctaata gcgctcctct 240
catggcgtag ccaagctgtc ttatgggtgag aacaggatta taattaatac aacccttgt 300
tcccatcaag ggaacatttg gacatccttc gcatgaagat agaatcctga ttcttccttc 360
cttctagcga gggaaccaat taacagacgc ccccccattgc tagcc 405

<210> 11913
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11913

tagagctgca ttgcgcacc tattttgaat cctctatgat gttcttatgt atataaaaca 60
gtcccacaat cncgatctta ataaatcaca tccatattgc attgcggcat ttcaccgagc 120
acttggtggg cgcggtgtta ggcataaatt gcaagagaat gggggcaatg tggcatgccc 180
cattgtttta gaataccaca taggcgtgag gccatcctct acaaccctc aactctaaca 240
aattaagcat aaaaaccccc aanactgccc cacaatatg agcacattct cacaatttag 300
agcacaaaa gatgaacaaa atgcaccaat ggaaagctaa aaactcaagg attgaatact 360
tacttggttg agtgagt 377

<210> 11914
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11914

aactaaattg ggcacagcct gggataanan ntatagttag ttggaatata aaccaaattnn 60

ataattggga agtgaatata tatanntata tatatcatac tatactatna ctgagggagg 120
 gaatcttctc aaagtanaaa ataatacaan cntatttggt annaagtaac taagctattt 180
 ggttgccag gggtttaact ataatatata ttggcactct aggtaactac ttcaaacaca 240
 catgtcaacc ttccacgtca gttttgaaat agaagcacag acgcccagtc cttgacagtc 300
 ggactctcca acanacaagt tatctataac ctcttaatta tttgaatata tattggaacc 360
 actttatctc ttgacaggtg tcacgacctg cctcgtcggt 400

<210> 11915
 <211> 490
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11915

nccccgcga tgagaagtca ncgtacnncg cacacttaga aactcaacct tgcanaanaa 60
 tgaaaatatt aaaatttcaa attcatattc ttatgtttaa atttttaaat catgaaacac 120
 actcttaatc atacttacaa tcttagcata ttttcacac atattcataa tataataccg 180
 tgtttttatt atcataatac aatatTTTtac attttccttc atgtgacaat tgcatttcaa 240
 ggtacgttca tcaccaactt catgtgacat tgaatcattg acataaactt agattagaaa 300
 atgaatgaac aactttaag gaaagaaatc attgtcaaaa gttgtgcttt gtaattaagg 360
 tgtacaatat ataaagttag tgatgaacat accttaaaac atagtgttac atgaaggaaa 420
 aaacaaaata ttgtataata atgatgaaaa tgcaatatta tatgaataat atatgataaa 480
 aatattntan 490

<210> 11916
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11916

ccccgaaca gaggcgaaac ggacagngaa acgcacgcaa ccgaacccca cacaaaaaca 60
 ccacnaaggg ggcgccccga ccctgnaccc ccnnaanaaa aancaaggag aaagaagaga 120
 ggagagaaaa aaaatggtga gagaaggga aaaagaaggg gggggagaaa aaaaggagaa 180

aaagagggga aanaaggaaa aggaggaaga agaaagagaa agaaaaaaaa ggaaagaaag 240
gaaggaagag gaaagaagaa gaaggagaag gaaggaaaaa ggggaagaga gagaagagaa 300
agaaaggaaa ggaagagaga aaaaagggaag aaaaaaaga aaaaaaagg agaaaaaaa 360
ggagaagaag aaaaaaaga aagggaagga ggagaaagaa agagagagaa gaaagagaga 420
gaaggaaaaa aaaaggaaag acc 443

<210> 11917
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11917

ctgcggatnt ggtcttcgcc gggtaaagga tcaaagtga tcatataaga ggcaaatntg 60
gtcatcctgc tgtggctgcc attcctatat ggccaagttt cccaccaacc caacaatgtc 120
attactcagc caataacaac ccattttctt acccaccacc cagttatcca caaaggccat 180
ccctaaatca aaccacaaaa cccacctacc acacgaccaa tgctaaacac cacctttagc 240
acaaacaaaa gactaacca agaatgagt ttgcagcga anaaaaaacc tgtagaattc 300
acccaattc cgggtgtctta tgctgacttg ctcccatatc cactcgataa tgcaatggta 360
gccataacc ctgctagggtt tcctcaacct tcattntttc gaggatacaa ctggaacgca 420
acat 424

<210> 11918
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11918

ttcnatangt atagggncna ccagagagac gaggggggca tttttgaaag accacagaca 60
caccactgcg gcgagaacac cgcacgagag aaccgagacc cgaggagag aagcncggcg 120
ctggagaacc ncggaagaa cgcagcgcag cgaccagcga ccgaccaga gcccgacag 180
agacaccac gacgccagcg gagcgaagcc aaaacgaccg tgctatctcc ctgttattga 240
tgcatatgga agcgttecta gtacctctat acgtaggatg ctctgtgtgg tctcctctc 300

ggccgtacat tctgtgtagt ttattgtatt cgcctctga tagtcttgga ccctgggtgt 360
 gtttccgata tcttgtttta atacgatacc ccgtaaccact atttatcgtg ccaatgtata 420
 accgcttg 428

<210> 11919
 <211> 492
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11919

cgcccaccgg ccttttaggg atgccagatc gcacnacnnt tngaaacgnc acccgccgca 60
 tgaanaagac cattgtgata aggggaagat tagtgcnttt tgataatcta agcccttgag 120
 tgcgatagga accaatgaat atttgtagcc aagcctcact acaagcccga taaagccctt 180
 ctgattctgt gaatacat tctgactgtat ggtctgaaac gaaatccaaa gactgagcct 240
 cttgctagtt gtgattaatt aatcacttat acactagtgc ttgagagaaa caagagccgt 300
 gaaactgtgg ggaagctact ttccttgaga tctggcttat gcctaactcc atctaaatgc 360
 tcacgcgaca atctattcct ctctttggag aaatgcatac cttgtgaaac acaagtgatg 420
 agagcatttt actccattct cttatcattc tatcaagaac tcttggtgca tccaccctat 480
 gtacatatac ct 492

<210> 11920
 <211> 538
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11920

gacgcaccga ctacgacaag agagataagc ggcacgacag gacacgaaca cacgaaacaa 60
 atactccaac accnacaaca ggagggnnnn nttgacctcg ctcgaccccc nnnnanaana 120
 nanaaagggg agaaananag acggaagag gggagaaaga tggtttaaga aagaagaaga 180
 aggaggaggg agggngaag gaggaagac agacacaaan aagaagggg gagaagagga 240
 aaaagagaaa caagcaagaa gagaaggag gggaagagcg agaaagaaag acacgagcag 300
 acaaaacgag agcaggggacg aaacccaaac caaaggaacg acaccggaaa aaacaccaca 360

caaagaccag caccacaaag agccacacac cgcaaaaaga gaaacgaggc agcaagaaac 420
 ggagccaaag agcccgaccg aacaacgagg aacagagacc agaacatagc acaaagaaca 480
 acacaacgaa cgcaacgcc aacgaaagac caaaggcaac acaaaccgca acagaaaa 538

<210> 11921
 <211> 367
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11921

agcttctctn gccgtaaaaa agatattatc ggccagtgtt tgtaaaaaaa ttgcgcactg 60
 tccgctgaaa aatatccgtc ggggctatct aactaccgat gtcggctatt gttttttcta 120
 ttccaccctt gaattatatt tggatgatgc ctattaggaa atgttcgggc ggggtcatcc 180
 ggccatgctt ctttttgagg cctcaatctg tcgtctttcc tagccaggcg acgctggcta 240
 gcattttttt cgatcaatat ctgagtgaat catgtttttt ttgcccacg agggctaata 300
 gtttcatgtg ccaccaaata agaacatgcc aatgtcggac gatacacaat accgcacgaa 360
 aaaccct 367

<210> 11922
 <211> 471
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11922

catgcgaagt gngtggaatt cctagagcaa ttcctttatg ttatcaaaca tanaaagggg 60
 aaaggtaata ttgtagccga tgctctttct cggcgatcat cattactttc tatgcttgaa 120
 acaaaattga ttggtcttga atgtttgaaa agcatgatg aaaatgatga aacttttgga 180
 gaaattttta aaaattgtga aaaattttca gaaaatgggt tcttttagaca tgaaggcttt 240
 cttttcaaag aaaacaaatt gtgtgtgcct aaatgttcta ctagaaattt gcttggttgt 300
 gaagcacatg aaggagggtt aatggngcat tttgnggtcc aaaagactct anaaacatta 360
 caagaacatt tttattggcc tcatatnann aangatgtgc agaaattntg tgaacattgc 420
 attgtatgta aaaaggcaaa gtctaaggta aagcctcatg gattgatact c 471

<210> 11923
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11923

agcttttttct tgaagtactg ggagtgggtgc tctgagacga ggtgaagttt ccttggggact 60
 gcctctctat ttatagttgc tgaagtgggc ttataggcct tcgtagtcgc actcagcgcc 120
 acacctcgcg cttagcgcg tccagatcgcg cgctgggcac gccatgcacg cttagcctgt 180
 gcttctgttg gatcgcgcg tgggcgccta gctgggctta gcgcgcgtaa cggtttctac 240
 tccttcgtgc ttaacgccac gcttagcgcc tgcagctagt tgctcgctta gcgcctgtgc 300
 gcgcttagcg ccactgttgg gctgggcctg cttcagaatt cctttttttt cttcctttct 360
 gttgccactn ttgcttaatg tacccttttt tttcgatatct g 401

<210> 11924
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11924

gcactacttc acctnttatt taattttacan aataaataat acacaatgaa nagganaact 60
 taactactgc tgataaagaa aaaacttcta gaatttagcc ttatcttttt attttaacaa 120
 tagacaatgc aaaaaaaaa atcaagattt gaattgacta aactctataa actgggctga 180
 ttaattatga gttaaacagt ctttaattatt taataataaa tattaataac atttaaattg 240
 tacagcataa ttatactat tcacagaggt attggaggga gacagagaga agggaaccaa 300
 cctggctctt tgggaaagta gggcaacaac accaaagatg aaaaacataa gaagcattcc 360
 agagtgtctc aagtcattca tgtgagcggn gttaaggact ccaccaacaa aaatcttgag 420
 gtgtgtgaat acaaaagctc gatgcacatg tcaacgaaag caccaattga ataacatat 479

<210> 11925
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 11925

agcttggttat tcnntatgat agaccagtga gcctcacggtt caaagggaag ctagtatttg 60
aggtgaacag gtatggcttc actgatgggtg gagcttgggt tgatgggaac ctaaactaat 120
gcaatcctac cccgcaaggg cattggatag aaaactccaa gtagattaag ccagagatgc 180
aagagaaggc cctaggattc ttatgagcct tacggtagat ttcgggccca tgggctaagt 240
atgagcccac ttatctttgt aaatattaga ttaagggttc attatttttg ggccttgat 300
atagagctcc ataatgtagg tagggtagcc tagaaatata tgaattttca gcccttgat 360
tttagggcac ctagactagt ttttgtatta cgggtagttt tgtaat 406

<210> 11926
<211> 308
<212> DNA
<213> Glycine max

<400> 11926
gcagatgcat gaacatggtc agtttgcagc gctctgtcct cgtgcgtaac atgccagact 60
atatatgctt gactcaatga ggaatgctac agtgtgtgag ctcagcctgt gagaccatga 120
cgagaccatt gtagaaaact atagctaagc agagatactt actagaaaca ccacatatag 180
ccacctgact agaataagaa aacaaaagga ggtgaggtat cctaaacgtc atacggagaa 240
tacatggagc agacaggcaa ctgtaagacg cactttgtgt aatgaagcag tggacatact 300
tacaaaat 308

<210> 11927
<211> 406
<212> DNA
<213> Glycine max

<400> 11927
agcttttatt tcgtcgtggt gctttcatcg ttgtcatctt ctcagacca tcgtgtcact 60
gtcaatgtcg aagtgtgaac tctccacca caagactctc atcattagaa gctatgaacc 120
catctcttgc attttcatgt cttctttgtt gaattttgtt gggatcagag ttggtgtggt 180
tggtgatgac attggcttta aggtgcggcg gaaggagcgt tagggtttgt ggttaagatt 240
ttgaaggaaa atggtctcaa aaccatattt tgggctcaag agtcaattac atgtagagaa 300

agtgttaaca tcctatgatg tttgtcctaa gacaattacc tcacaactaa tgtgcacatt 360
tagataaatt taaaattatt tattttaccc ctcacaaatg aaaaga 406

<210> 11928
<211> 508
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11928

agggaagggg gnaggatcgt cngntcgatg cnnctcataa cggcacctta gaaacanaac 60
cttccttaag aagataccta atgaagctag agcttaacta catctcttct ctctaatagc 120
taagctcacc tgcttgagat gagaagctag agcttagcta cacaccccat ataatagc 180
agcttacccc catgacaaaa tacataaaaa taaaaaaaaa gtcctacta caaagactac 240
tcaaaatttc ttgaaatata aggctaaaat cctatactac tagaatggcc aaaatacaag 300
gcctaaacga aggaaaaacc tatttctaata tttaaaaga taagcgggct catacttagc 360
ccatgggctc aaagtctatc ctaaggctca tgagaaccct anggccttcc cttggatctc 420
tggcccaatc tacttggagt cttctatcca atgcccttgc ggggtaggat tgcacattc 480
cctccacctt ggaaaggatt tgacctcg 508

<210> 11929
<211> 384
<212> DNA
<213> Glycine max

<400> 11929

agctcgttta tgggtaaaca tgacacaaga caaggcttgg tttggttcaa aggtaaaagg 60
gatgccccac attatttcca tgacacaaat gcaaaaatga tgatttggaa acttcatgct 120
aaactgggtca tgcattgcacc tatgtggaca ctcaagtgtc aaattattat ggtcatgtga 180
tgctaaagct taagattcat ttccactatg ttaaatcaac ccaatgtttc caaaatatgt 240
tcttttatca atttgtgcat tcattcgagt acatttcggg cgatcagtga atttatacag 300
cattcacctc tcaagtgtag acacatcttt caaagatagg gtatgatcaa tgaatttctt 360
tcaaaaaaag ttggaaatta tttc 384

<210> 11930
 <211> 493
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11930

agggccgctt tacgaagacg tagcagnacg tacnnnctng agtaatnaac nnncgaccnc 60
 ctgtgttctg ggaacctctc cttectcagg tgttcctctt tttcttcacc tagttcaagc 120
 acgactgtgt ttctgctttt gttggcttgc cttgcatagc ccgcattatt cttttcaatt 180
 tgagccttca cttgctcatg cagcttcttc acatactcag ctttagcctg tgcgtcctta 240
 tgcttaaaca tagcaatggt aagcatangc aacaaatcaa gaggagtcaa aggattaaat 300
 ttatacatga cgtgccatca ttttcttcta tcttctaaac cttttttgca ccattttaat 360
 tactgattgg tcttaattgt caattaatta ggcagtttta ttattggggc tcaattagct 420
 aatctgatgt ttttaatcta atttcacgaa ttaatgaaac attgcgctta atccggattt 480
 tggttgtgac tcn 493

<210> 11931
 <211> 594
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11931

ccgcagccgc ggcacacacg cgtaatagtg acagcancag gaggaaagcg ccgctaacac 60
 gacacacacg cctcccatat catacatncg cacancacac agacacgagc gccgtgtaga 120
 ccccgtagca ncaccgcnaa nnnaccgacg aaccaccgcg aagcacccga gacgccgga 180
 cggacgagcc cctccaagcg gtttgaccac cagcatagc cacaaacgca ggcgccaaga 240
 ccancanca ccacaacaca acgcaccac acgaccgcaa caccgccgac acacacccaa 300
 gagaagacac gcacaagagc acacggaacc acaaaccaca agagaccaac aacacgaaac 360
 agatgccaaa gccaacacag cagcgagac ccacacaaag agagaccagc ccaaagaaca 420
 acgcatcacc caccgagcc agaccacaac acgcacggca caagcaacc cccacagaga 480
 accaacgaga cagcgaagc aaacagcgac accgcacagc acacagaacc acaaatgaa 540

cgaccaagcg cgagaaaaca ccgaaaacca aacacacacg ccaccgaaaa gacg

594

<210> 11932
<211> 319
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11932

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nttcatgtcc gcctgagtgg gcttattgcc taaaccatac tagccacgat tcccttgtgt 120
ttttatcaca ctagttatgc cgtcattggg tctgtctaaa cccatctccg gggtcataac 180
cgttccacac ataactcggg ccatacattac cgccgcatcg gacagacaag gctgcccata 240
gagggagtcc acggaggaaa tgcttaccac ctcaacaagac tggaaagcgg tttctaacga 300
ttcttgtgcg gcttcaca 319

<210> 11933
<211> 539
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11933

acgcccgcac caccaagaca cgacgagagn actacgcaga cggaacaagc ctcaacacaga 60
accacacacc aacgagcatt gagcctgcaa gcacgcaang acaagnncng ggaccgnnaa 120
gcgacagcag cagcaaccc ggtgaacacc aaccacgaac ccnaccggcg gagaacaagg 180
ngaanaccaaa acaccccgag aacgcaacaa aaacaccggc gaagcagcca acaaaaccgc 240
cgacggagca acccacacaa gcaaccagga cgcacgccgc aggaagcaag atgaaccacc 300
gcgcgggcgaa ggccaggaac ccggaatatg cacccccagc gaagaacaca cgcaagacgc 360
gcacgacgcc ggaaaccaac agagacaacg agaaacgcga agacgagacc caagcgtcaa 420
gcaggcgccg cacaaccaac gaagacagag gagagcacac gccgccgatc aatacaacaa 480
tgaccatggc gcgaccacga acaggcgaaa ccgaacagga gacaacagcc gacacacc 539

<210> 11934
<211> 497
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11934

nnnccggggc cggtacggaa agtancangn agnnncnnaca natacgcaag cnncnagctg 60
ttcattggtg tgtnttgatc tcctttnggt gttcnataat gtgggaatgt gctcaaatat 120
gtggggcaat tttggtttgt tttcttgctt gattggggtt aattgggggt ttgtatgaga 180
tgggcctatg cctataatgc attttgaagt aatggggcat gccacattgt ccccgttttc 240
ttgctattga tgcctaaacg cgcgcccacc aagtgttcgg tgaaatgcct caatggcatt 300
agcgtgtgat tttcgtaggg aaaccaccca tggggcattt tgatttgcac atattttcca 360
tttttttggg acatgcattc agtttcgaaa gggctagagt aattgcccc aatatatcct 420
aggcctaaga acctaagttt ttatgcataa gaacacaaga agaggtgcat attgtgtaaa 480
gttaccttct ttggccg 497

<210> 11935

<211> 471

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11935

acgccgcctt tegtaccctt gnanaccacc cgtttgggaa acgctcgcgg gaccttagaa 60
cacctgacgc cgcagcttaa tgacttagaa aatacccacc ctcccgtggg gctttcacta 120
tgagggaatc ctctcatgaa gccaaactaag agcttcactt tgacaggcct tatggaccga 180
actctcaacc atacctagca tcttgactga ctatgctacc atcgtaccta caagcttgtg 240
ttttctcatg acatgatcta ggggatgtgc gcagctttat gagatctgaa ggctttgtaa 300
aatacatcca aaccttcggt caagtttatc aatgctacag aacctcttca attaaactct 360
aaaccacatg gtatacaatt acaccctagt gcgggtcgac gaggactaac gtatctcaac 420
atatcatcca aatcacgaaa attcaatgac tgcagcacia tctataaatc g 471

<210> 11936

<211> 1056

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <400> 11936

agggcnnnnc aggcggacca cgggtctttg cntttnaatt tactcncccc tgcangtana 60
 nngcccgann nactatttan nngannanan annannaccc gangncgtga ngcagctacn 120
 ctcangnagg gtgagnagtg taacacgntg cgnnangaag aaaagagaca ancgaaagtt 180
 acatgttcgn tctttanntt acanttnanc agnacggcng gncacancn cacnaaggan 240
 cgctgatnnt gtagtantna gngtattgta cccanganta naactctnca gtaccctata 300
 ntctcacca ctagcgatan ttcanctac ctntgnagtg aggtcggcgn catcgtagac 360
 cgactatc actactgact aacgangcca cntcgtcgac tgnttcgctt agtacgtcga 420
 tctatgggcn ctgaagaatc ttacgtacac gtcgagcgaa gcatgancag cgcttgatng 480
 gacacatcgt cgtgcagtgt gncctacaca gtgggatcac acancgggtc cccgagnanc 540
 tactacntaa tcanctaacg acgccagtca tgntaacagt cncngcactt angcctncat 600
 cgaaactagc agcgtancag tcnngcactcg atacnatatn gcgcgtagct agcgcaccgc 660
 cataggcctn tgacgctatc tatntgcagc ctgaaagagc aagcctcggg anantantgca 720
 gtataatggt gcacanttaa cctcgancgt acccgccaat nagtncantc gtactacgtc 780
 gtgaactcgt gcagcactaa tcatgtcgan gaagctactc atcgtcgtac taggcaagta 840
 ggaagtagca acgacncaga antccgnac ngagtantcg ctatctgcgt gtnccgcttn 900
 tcgtatgtcc caacnagggtg cagacaccat acantgcaac acagtacacg tccgcccacg 960
 tgcgacatgt catnacanca cagtacgtaa ggttacgagt gtctccgcac atctcacgtc 1020
 gctttngttc ncgatantct cctncgncac gcgcgn 1056

<210> 11937
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11937

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 cgcagcagca ggaggagcag aaatagccag ctgcaagcgt caccacctct acgacatcca 120
 ctgttaatca tcgtttacga ctaacttttg tatataaaag ttttcaaaa tgtatataaa 180

tttcccaatt tatggttctt ttggttagga ttgtaaataa aatttctttg ttttgatctc 240
 tgctcagtag aagcctctct agatggaatt aatgttaaatt tttctttaat ttcattgcaaa 300
 aatgagacta tttgaagaag taccaaatga gtcattcacgc taagcgagct caatgcgctt 360
 agcgcgcatc aacagctaag cccagcacca acacgcttag cgagt 405

<210> 11938
 <211> 484
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11938

ccgccgtctt tgnagaactc nagatcgacg ngcncataga tannaacctc cgagacaggg 60
 ttatgaacct acacgctagc atcctaattc ttgtaacaa gcttttcgta tatttggtgt 120
 gtagttagaa aaatctctcc aagcacctta aataccttga gagagaagac taagtactta 180
 gattgtacaa tcgtttgtaa gacgattaat atttagtcaa tgtgcaaaca aactataaat 240
 atgttgactt atttatagct agcagtggct tgatagaaca aataatatgt caagcttggt 300
 gtagagcttg aggtgtaaaa gccaaaagtg ataatgactt atacttataa cttgttgaag 360
 ttggtggaac ttgggggtta accaatagct agtctcaatg gtagagatga ctagtattct 420
 aatctgactt ggggcttgaa tttgattttg tctgaacgac tcttttaatt tgcaaaatct 480
 attt 484

<210> 11939
 <211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11939

agcttggtcn tgattttttc taaggtcttt aacaagctta taactatata cttgtccttc 60
 atttaactga ctttgggctt ggcggccacg atcaacaaag tactttggac acctactata 120
 tgttgatttg accaacgtg ttatcggtat gctacgacaa tccttcaata cttattttat 180
 acattctgag aggttcgtta tcatgtggcc atatcgacgt ctttctctat cataagccat 240
 gggccatttt tcctttgaaa tgcgatctat ccatgttgct atggctggac tcacttgacg 300

accgcaagcc	aaggaacaaa	ggggaacgag	acaaacacag	acccgaacca	cgccaaaaag	60
gggggcatgt	gaccctggaa	ccccccaana	acaaanagca	ccggggaacc	acgcaacaga	120
acgacgacca	acaatcttga	cgcaacgcc	cacagaccac	caggagaggc	gcaaccaga	180
atacacacac	caaacacgca	cactcgcaca	gcaagcacac	acccaccagc	atcgcaaacg	240
cacacacggc	acgccancag	gcgaaacagc	aggacagagc	agaacggagt	gcacaccgat	300
ctgcgagcac	tgacacagaa	cgcacaaatca	ggcccacgaa	acgcaggcac	cgaagaanac	360
agcatagcgc	gcaacacaga	cgcgcatcgg	acggacgcac	acacgagaca	cacacgcgga	420
tggcgcgaga	cgacgacacg	cagccacgac	aacgcagcga	cgccgctgag	agcgccacac	480
tacaatcgac	cacagcagag	agaagcacgc	gccatcgaaa	tggaggcgag	acaaaaccga	540

acaccacaca cagcagagtc cgacagagca aagacattga cggcatacag ggcacacgca 600
agcgccggac ggaacgagca acgcgcacac cacaacg 637

<210> 11942
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11942

aaaaaaaaag aatacaacaa aagaaaagaa aaggaaacgg aacatacaaa cannnaagaa 60
ggaganggcg cccctagacc ccnnnanaaa annnggagag aaaaaaagaa aaagagaaga 120
atTTTTttaga aaaagaaaaa aaggggggga aggaaaaaaa aaaaaaagaa aagaagaaag 180
aaaaagaaag gaagaagaga gaagaaaaag aaaaaagaag gaaggaaaaa aaagaaaaag 240
gaaaaaaaga aagaaaggaa ggaaaaaaa aaaaggagaa agaaaggaaag aagaaaaaaa 300
agaaaggaaa gaaagacagg aagagaaaga aaaaaagaaa aaagaaaaaa aaggaagaaa 360
aaagaaagag gaagaaaaga gagaaaaaaa aaaaaagaga aagaac 406

<210> 11943
<211> 395
<212> DNA
<213> Glycine max

<400> 11943

agctagtttt atctttatgc gagacagaga ccaacatgtg agctatcatc gtcaagtacc 60
aagaatagct aagtgtagcc actgcccacg agcataaaat cacggatgag tatgctcaag 120
tgtatgcgga aaaagaggct aaaggaaggg tgatcgactc ttacaccat gaggcaacca 180
tgtggatgga tcggcttgct cttaccttga acgggagtca agaacttccc cgattgttag 240
ccaaggccaa ggcgatggca gacacctact ccgccccga agagattcat gggctgctca 300
gctatttgca gcatatgata gacttaatgg cccacataat tagaaatcgt tacgaaaatt 360
gtatggtctc tcagaccttg actggatagc acttc 395

<210> 11944
<211> 355
<212> DNA
<213> Glycine max

<400> 11944

agaattaagt gcattctata tttccaagag cattcactat tttactgaat acttagtact 60
ttataaagca ttacgattag taagataggg aagagaatag tattactttt ccaagaattg 120
caaactttcc agtaagttat ttaaagacca gtcaaacc aa tcttaacgaa ggaagattcc 180
tagaggatag tattcacagc gaattattgc agggaaatgtt atccataacc gttacacgtt 240
gaagcagaca cccatatgat ataaaggggtg aatgcgctac aatatcatca caactctcga 300
gccatttagt tatacagtca ctcaaccatt aagtactatt gatgagtact acaca 355

<210> 11945

<211> 559

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11945

gccaccccac acccacaccg gagaggaaag aagtgagacc acacacagac gaagcacaca 60
caacaacaca aacacacacg cgagagaacc gnnngtgga tcccgtagcc caccncaana 120
nanagaaaga agccgcgaga gnagaaagnc cgcgacgaca aacaagcaaa ctgtggtgga 180
agaaagacag acaccacaac acacaggagg cgagacgcac gacacaacga cccgacacnc 240
cacaaacacg cagcagacga acaaccactc aaagccacaa cgaccgagca gcaanacgac 300
gaaggaacaa cgagcagacg caggaaaaca cgacagcaaa gacacaaaca cccaaggaga 360
agggaccaac acaccaccaa cacacacgac aacaacaacc gacaagggcg aaaaacagac 420
accaacaaac cgagccgaaa acaacacgag aagcgacaca caaaaaccaa caaagaacag 480
gaccaaccgc acaaggcacc acaacaacc accaccacca aacaaacca cgacacaagga 540
aaccaaacag ggagaagcc 559

<210> 11946

<211> 502

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11946

ccacctcccg cgggggttga ttgactgagt cgatcgnach nnacngana atatagccaa 60

ctcacgctnt gggcataatg agaatgcaaa tatttagagt ttatttgtgt tcaatgctaa 120
gcttttagggc ccattatata cttgtcaacg aaaaatgatt tcgcttaagg gagagcaacc 180
aggtggaata gactcacttg ggaggaaatt gttgaagtat aattgtgaat ttttttatga 240
agctcgaata tatttagtaa atatattcaa atattggcac aagctatgat gacgaagtaa 300
atatccttgt gtatgatgta caaaaaataa aggtctttgt tctagatcat ggtagtatga 360
tgcatectcc acactttacc accaactctc ttctttacgt ttcttttttt cctctcagtc 420
gcataccacc atgattctcg tgatgacctt cttctcttcc gctactaaca attcccaacc 480
acaatagtgc aaccacccat cg 502

<210> 11947
<211> 393
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 11947

gggctagcgt ttatgcgaga cagagaccac atggtagcta tcategccaa gtaccaagaa 60
gagttaggcc taccgccggc ccacgagcat agaatcacgg atgagtatgc tcaaagtgt 120
tgcgggaaaa agaaggttga aggaaggggtg atcgactttt tacacccaag aggaacccat 180
gggatggatc gggtttgctt taccttggac gggaagtcag aactttcccc gattgttacc 240
caaggccaag ggatggcaga cacctacttc ccccccgag agattcatgg cttctcggct 300
attgcagcat atgatagact taatgccac atattagaaa tcgtaggaaa ttgatggctc 360
ttagacctga ctgactnact tcttttttaa tan 393

<210> 11948
<211> 500
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 11948

tctcaagcaa gcttccatca atccttttat gttgctaaga atcataatga ttccatctta 60
ngaacatgtc ttaggaattt ctgcactttt cttggattat tcttaccxaa tggttttag 120
gaaatatagg atttcccat atgaagcttt gcagaatgac ccttcagaaa ggagtaagaa 180

atgtatacac taacaatctc ttagcatctc acagtaggga tagaatatta ttcctataaa 240
 catacttatg ttcttcagat ttgcttaaaa gctataaatg caaacttaaa tgctttgaat 300
 ttcaaacttc catgtttctt gaacactctt agtgagtagt tntactttta tgagtgtttc 360
 cacaaactaa ttactcccct tgagctttct gagaaagtgc cactntctct cttttagttt 420
 tttgaacatc aaannagtgg ttcctatggc ttggtttgaa taaaatgggt tctgaacatc 480
 tgagtanatg atcatatatg 500

<210> 11949
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11949

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 aggctaaacg aaaaattagg gaacttaaga aaactaaatc cttaattgaa ggcgtaagtg 120
 acaatcatag cgaattacta aacaagattg gtagtttgct taaagtcatt ccaaatactc 180
 cccaagcctc ggaaaatact tccaaaatgg taacaagaag tacctccaaa ttaattaatg 240
 ttattaatga agatagtgc caaaactcag ataacacaac tgagatagga tcagtgtcag 300
 aaaagaacat aaatccgata aattccaaac actgganaac accctccana ttatattatc 360
 aacgtccaac tgcccctgac cttctatta 389

<210> 11950
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11950

gacctatttg aagactggcc taactaaaca ttattattga acagcataat taaaaccaag 60
 acttaatccg cagatccctc ttgtaagatt aagtcttgat cctgcttcaa tcaagttcta 120
 aggcaacagt acatttccca atgctaaagt cacctaacta tgcacacaaa tggatgatca 180
 aacaaaaagc atacaaacat taagcattga aggaagcatt gaacacagaa aacataatca 240
 attaaatatt aggtatttac atcagttggt cattagaaat ccctaactag ggtgcttatg 300

cagccattac aaaaaaaccc acataataat aatggtacaa aacctanngt tcaatgcaca 360
 agctgctctc ttgatgcttc tanggctttn tttcccaa atgcactgtg gtgttctctg 420
 gaatctgtgc cctttcttct gctacaatc ta 452

<210> 11951
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11951

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 tatatcgaga cgctcgaaat tgaataccga agcgctaagc aaattcaaac gacaaaaact 120
 ttttactcgg atgtctgatt gagtcccgta atatatcgaa aagctcgaat gtgaatgtag 180
 aagctctgag caaattcaaa caacaataac tttttactcg gatgtctgat tgagtcccg 240
 aatatatcga gatgctcgaa atggaatacc gaagctcgga gcaaattcaa acaataataa 300
 ctntntactc ggatgtccga ttgagtcccg taatatatcg gaacgcttga aattgaatgt 360
 agaagctctg agcanattca aacgacaant aacttttact cg 402

<210> 11952
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 11952

tctacattca atttcgagct tttcatatat tacgggactc attagacatc cgagtaaaaa 60
 gttattgtcg ttggaatttg ctgagagctt ctacattcaa tttcaagcgt tccgatatat 120
 tacgggactc aatcggacat ccgagtaaaa agttattatt gtttgaattt gctccgagct 180
 tcggtattcc atttcgagca tctcgatata ttacgggact caatcagaca tccgagtaaa 240
 aagttattgt tgtttgaatt tgctcagagc ttctacattc acattcgagc ttttcgatat 300
 attacgggac tcaatcagac atccgagtaa aaagttattg tcgtttgaat ttgctta 357

<210> 11953
 <211> 404
 <212> DNA

<213> Glycine max

<400> 11953

agcttatgtg ctatttcctt acgaacgttc acttgcacaa gacatcctat caactaagaa 60
aaatgcaccc atatacaatc aaggtagctt cattacctag attatttaca tgtacttcca 120
aggtgtatgtt gttatttaca tcacacacgc ctcttggct gaatttacat acatgcatac 180
tcaaagcatt ttgggggtacc aaaaactgca catgcgctca tcttgggtatt tctaataccc 240
ctacatatac aaacttcacg atgaatcttg actacctaca caataaggtg ctacatttca 300
tgctcttttt tttcaagttt ttgctaccta aagccacatg caaattcaag catattttcc 360
tttgctgact aaaattgtat tcaaattaga aggcatatat tttt 404

<210> 11954

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11954

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ggactacgaa gaggcaagtt caaatatgct gccaatatgg cccccaacaa caacagaaga 120
gccccagtag tgggcgcgag gaaaaaggaa ggagacgccc acgcgggtcac caccgccccg 180
acgtggatga aagcacccca aaatatccaa agctcatacc aaccaatcc cccaaatttt 240
ttaatccgag ctgggaattc cctcccgact caagtaatag gaccactcgc agcagaaaaga 300
gcgcccgcac aacgcacagc tccagccgca ccccgccag ttaataatac agcccgcggc 360
gcgacttata gatatgcaca acacccgccc ncgaaagaca acttctctct attccatgga 420
tactccaagt atggcctcat tattggaga 449

<210> 11955

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11955

agctnttttc tcacgtatgc aactattgtc aatctcatat cattcaattg gaaaagattt 60

gacaaagtgg attggaggta aaagttgaca ggttgatgtc tacggaaaca agagaaaagt 120
 aaaagagcaa aacacaggcg tatttttgata agtttgagtt attagtaagg ccacaaaaga 180
 gatacgtcag gataatTTTT aaaggaattt ccaagccaag aggacaatgc cttgatgcac 240
 caaagaagta atgcataaaa gaagaccaa gagggattaa atgaatgacc aaagcctcaa 300
 ggataaatag atagagcata atatcatcat tcaaatatt acacggtaat attaaggggt 360
 tcaaaaggac catcaaattc acatgataat ctaacacaat aaagaaa 407

<210> 11956
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11956

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 ccncttggtg cttggcctgg tacgtatnaa ttttcagaat attgctgtct ggttttttgt 120
 ttgcatatcc tgtttttaac tggcatgttc ttttctcttg taactgcaaa aaaatattta 180
 cttgctgagt ggcttctaac ttttaataatc ttttaacaatt ttttaattaag gaatgatgcc 240
 cattgctgat tgcataaaca aatgaattgg aatccttcca atcctttgaa taacttctca 300
 tgctatcatg catgaggaat atagtgaat tttattcata tgccgacata tataaattct 360
 tgaccaatc aagtatgtta ttaacttatt atctattagt atgaacgtct ggtttgaatg 420
 ttacatttca tgt 433

<210> 11957
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11957

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 ggtacctgga gatatgtcgc gggggtcagg agacctttgg gacgtcagg ggggtgctat 120
 tgcccaaac caagcttgac caatcccgac ccacccggg catagtcggc cagtgagaac 180
 ctgtgatgta cctaaacagg caagctcctg gcagtcaaca gataaaagga acaaagacca 240

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<223>      unsure at all n locations
<400>      11958
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gatcaactag	cccgaggtc	cattatgata	agacggatgt	ggaacatgac	aggaggatcc	60
aactggaaag	gctcatttaa	gaagaaatcc	agagatatga	aagataggga	gaatagtcca	120
atgatttagt	atgaatgcat	gaagcaaggt	gatgcaatcc	tactattcgc	tatcggcaag	180
tgcaccggat	tgcataagta	gtataaaaca	gtaagaaccg	agtatcgaac	tctcagggaa	240
cttgtgttac	ttggtaaagt	attgtagcga	ataagtgtct	ggtgtgaaaa	tctaagtgtg	300
aatatgaaca	tgtatgtaaa	ctatctatgc	ataaaggaag	atcatgcgag	aganatgt	358

<210>	11959
<211>	406
<212>	DNA
<213>	Glycine max

<400> 11959

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taagctcacc	tccttgagat	gagaagcttg	aacttagcta	cacaccccct	ataatagcta	120
agctcacccc	catgaaaaaa	tacatgaaaa	tacaaaaaga	aagtcacctac	tacaaagact	180
actcaaaatg	cctcgaaata	caaggctaaa	accctatact	actggaatga	ccaaaataca	240
aggcctaaac	gaaggaaaaa	acctattcta	atattttaca	agataaaacag	gctcatactt	300
aacccatgag	ctcaaaatct	accctaaggc	tcatgagaac	cctatggcct	tcctttggat	360
ctctggccca	atctacttgg	agtctttctat	ccaatgcctt	tgcggg		406

<210>	11960
<211>	410
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations
 <400> 11960

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 nagtgctaga gaacgagctg tattttctgc gttntctgga aaacgcgatg aactcgctaa 120
 gcgagcatgc tgcactaagc gagttcatca atactcattg tatgtaagtg ttatctaaag 180
 aactcgctaa gcatgcttac cgcgctaaga gagttcatcc tttgaggatg aacactcatc 240
 ctcttgctga actacttttg gctaagcgag gctgaatcgc taagcccagg taacttaacc 300
 catttttttg gtgatagtta tgcactaagc cgagcattcc tgagccaagc acaatngggt 360
 gcagcgctcg ctgagctaag cgagcttcac tcgctaagct cccaacactt 410

<210> 11961
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 11961
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 ttacagttgt cttatacaca ttttcatact ttaaaaatat tctataattt tttgttgta 120
 atattataaa aaattaaaag cataaaatag taaaattaat ttcaatttat tcttttttat 180
 ttcttataat tctttcattc atttataaaa aaatatatga aaataatacc tattttttga 240
 aggaggcaat ttatttttat tacacatata caaataatat ataaaaaaat cataggaaca 300
 attgctccca gggtactatt gtctatccgc cacgtgatgt aacattaatt aaatttgta 360
 tatcatatca ttataaatg tgcattaata ctttacgaag 400

<210> 11962
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11962

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 gggggaggaa agtcaattag aatgaaaaga aaaagggttaa gcatcagcac acacaacaaa 120
 taagttgtat gtcaaaaaaa aaaagataaa aaaaataact tgtgctgtta caaaaaggtc 180

gaaagcaact taagataagg gaatagtgag aaggctatth gtacaaaaca agaaaagatc 240
 attngnatta gtctaggact tgtgctctct tagaatctaa acttttgaat cctaganaaa 300
 ccagtgattn ttatgtagcc acaacctcac tacaagcttg agaaaagtct tctgattttg 360
 tttatatatc tctgacttga tgacttgaga tgaaatgcan agattggacc tcctgttagt 420
 tggatatcaa 429

<210> 11963
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11963

agctnnatgc atgaccacca atggtctata tatatgtgac ttaaacaaga aattactcag 60
 agattttcag aacaacaaag tgtttatcct ctcaaagagc aaattcattt tatcctctta 120
 agaattcctt ggccaattca attgcaattc attaaggaat tatttgagtg ctcaatctgt 180
 aaaatccatc tctttctaga gagatttggt cttctctctc ttctcatttt ctaagggatt 240
 aagagactgt gagtctcttg ttgtaaagga tctctaaaca caaaggaagg attgtccttg 300
 tgtgtttaga acttgtaaaa ggaatttaca agatagtga actctcaagc gggttgcttg 360
 gtgactgaac gtaagca 377

<210> 11964
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 11964

ctttaagatg agtaaataaa aatctatagg agaacatttt tacatcttta acacattaat 60
 tcctgagggg cttaacattg atgatactat aagcgatgag gatcaagctt ttttattatt 120
 gtgttattta tctaaaatgc atgcatgttt cacagaaacc tcaactgtttg gaagagactt 180
 tttgtctctt gatgaagtat agactacttt gaattcaaaa gaattgaata caagaaaaga 240
 aataaagtcc tctggtactg gtgaaggact aacagcatga ggcagatcat caaagcaaga 300
 caacgacatc acaagatagg atctaagcca caatagaaga gtagcggagg aaatgttcct 360

aacatcacgt gttatcac

378

<210> 11965
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11965

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tcatttattt ttttatttat ttttgggtaa agaaatggga gcaaatatcc aaggattgta 120
gggaaaatgc aatagatacc tgaattgggc aaattgaagg tagtgatatg gagtttcgag 180
cttccacctc gggataaact gggaaagtgc acacatactt cattaactga taagtgacaa 240
acttattgtg aggtacatgg gcagaaaaca gatatcttta ccaagttgtg aacatacatc 300
agttttttgg tacaatggca acaatgaggt ttaaacctaa gactntatgc aaatactgaa 360
attccccacc actatgtcga ctccagtggg ttcatgaatg 400

<210> 11966
<211> 483
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11966

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nanngcaaga cgggcaacga ancaacagac attaatttgg tttatatgac gatggcgaca 120
agcagagcgt ggtataagac ttaatcttac acaccgacg cggcaaaaaa cgccagcta 180
atcttcacta caggggatc tacgagcaca tcacaccgt acttaggaat gcgaggtgaa 240
attagaaccg tgctgactta cgaattgcaa gacataccat actgcgaagg ctgatataca 300
tcaatggaaa ctaacaagta cgaagcgatt atattggacc cgcacagtag atgcagtaga 360
aactttaact aaaacaccaa aacaagcttt taaactggta gcacacctag gaccggatta 420
ggatcagact acagcgacag taataggaca acgtagagcg tagcagacca agaaatgaac 480
cag 483

<210> 11967

<211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11967

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 acaaatcaac tctccactt ccacaagtca aacataaaca caccatcccc atttgctcac 120
 ctttcaactg agctcacgca ctctacgta gcccttatcc ttgttcctct cagcaccggg 180
 tccctatcaa cccctccaag ctccacaat atccaagcaa ttcaatttca tttatcatga 240
 agctacccta aaccaagaaa acagagtaga ggcagaaaac tctgccc aaa acacattcaa 300
 ataccacagc tttccttact catatacccc agtaacattc tcttcgttcc aattcattaa 360
 ccgttggtatc accttgaaaa ntttactgga ggttcctagt ac 402

<210> 11968
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 11968

acatagttaa aggaagctga cttggatggc tgaaattgga tgcatagaag gaagcaagga 60
 gagcatgtag agagtgagag cacagtgcag agaaatagca ccaacataat gccaaaatgc 120
 agttttaaag cacaaatgaa aatgtaactg ccaaaggcag ttatgcctta tttttggcag 180
 tttcgaatgg ctgccttaac gtgccaaactc gctaagcaag catacatgat gtttaagttt 240
 ccaaacactc gtgcttagcg ggcaaactcg cttagcccat tgcacatatt caaaatttcc 300
 agagaag 307

<210> 11969
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11969

agcttggtgn ttcacctatg gagattttga attaaggggg tgtgttagtt ataattcaca 60
 atactagttg taaagtttgg tagtttggtt agttagttga gtgtgataag acagtgattg 120

aggctgaact tgagttgtat aaatagcctc tgtgtaattt atttcataat gcaattcatc 180
 tcatttttagt atatgctttt tcctggcttt ctctctttct ccacaacata gattaggtac 240
 ttattacaat cattagatct taaaaaaata tatgatataa atgatgagta actttaaaat 300
 cctccatcta ttactctgtg ttggctacaa cgatcagaga atg 343

<210> 11970
 <211> 307
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11970

ccaagcattg cagtggatta caagaggaaa cataccttct ccatagaagg tcanacaact 60
 ttataacctt gttataatca atttaagaac tatgtgtgtg aggccaaacc ttcggaatca 120
 ctaagacact ctgttatcta gaagagacta agacttatct gtcttcttga actttgattt 180
 cttgagctag attcggactg taagaaactg ttgagttgct atcgtcttgg cgtcatctca 240
 tccttcatac acctacattc acattctatg ccttattact gatgacaacc aactaagatg 300
 atttact 307

<210> 11971
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 11971

agcttgtttt gtttaagtgt tgaagggtga aacttcttgc ttttattgtt gaccacagag 60
 tggtagcttg agatatgtcg cggggggtcag gagaccttgg ggacgtcagg tgggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccga cccaaccggt gcatagtcgg tcagtgagaa 180
 cctgtgatgt acctaaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240
 cacaaagcaa ggaggcttgt ggtaggcttg ccagctgtga atttgtgtaa tatgtggatt 300
 gtggcctctg gtaatcgatt accaaggggtg ggtaatcgat tacaaggctt aaaaatgaag 360
 acaggaggct aagatgggtct ctggtaat 388

<210> 11972
 <211> 418

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11972

 actcagctcg agagatgctt aatggaggat aagaagaggg agagaagtga gaggnngggag 60
 cacganattg aaggaatgga agatgtatag aagtggaaact ttgaagtatg tctcacaaga 120
 ctctcattca tcaaagttac aacaagtgtt acacatgctt ctattttatag actaggtagc 180
 ttccttgaga agctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
 gagaagctag agcttagcta cacacacccc ttcataact aagctcacct ccttgagaag 300
 cttccttaag aagattccta aagaagctag agcttagcta cacatacctc tctaataagct 360
 aagctcacct ccttgagatg agaagctaga gcttagctac acaccncct ataatagc 418

<210> 11973
 <211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11973

 agctngcnat tcatggnaac tcctaataatc tcccacactc tttggagtgg gccattcttg 60
 gatggccttg attgtctgag ggtccacttg gaccccatth ctaccaacta caaacctaa 120
 gaaaactata ttatctacac aaaaggtaca cttctctata tttgcataga gggcgthttt 180
 cctaaggact gaaagaactt gtctgagatg tcctaagtga tcatctacgc tcctactata 240
 cactaaaata tcatctaaat aaacaactac aaatctacct atgaaatccc ttaagacatg 300
 atgcataagc ctcataaagg tgcttggcgc attagtgagc ccaanaggca tcactagcca 360
 ttcatacata ccacacttg tcttgaaagc acttttgcac tc 402

<210> 11974
 <211> 375
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 11974

 cacatagaaa ctaagctagg cgctacttcn tacgagcgtt cacttcacaa gacatnctga 60

ttctaagaaa acgcgcccac atacggtaag gtaccttcgt tacctacatc atttatatgt 120
 acttccaagg tgtatctggt acctacatca cacacatttc ctttgctaaa ttacataca 180
 tgcatactca aagcactttg gctatcaaaa attgcatacg tgcacattct ggcatttcta 240
 atacctatac atacacaaac ttcattgatga atcttgacta tctacacaat aaagtgtac 300
 atttgatgct tctttcaagt gtttttacta cctaaagccg catgcaaatt caagtatata 360
 ttcttttgct gacta 375

<210> 11975
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11975

agcttcnctc catttatcta taaatagggg gagaagagaa atgaataagg gttcagcccc 60
 ttacgcactt ctctctcttt cgaatttgct tggaaaaatt gtctccgtga agaaaatcta 120
 agccgagggc cttccgacgc gcttccgaaa cgtttccgta agcaatttcg cgaagggtgc 180
 gaccgttctt cgacgttctt cattcggttct tcatcgatct tcgatcttca acgagtaagt 240
 acctcgaacc aaacttttcg attcattcta tgtaccgag gtgggccaca ttatgtatca 300
 tgaattttta ttgtcgtaac attcactata tatacacgct cttgacgcgc tt 352

<210> 11976
 <211> 328
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11976

agaatcaccg ggacgagttt tctctgtagc tgnacaacng gttcagccgt atcttataaa 60
 tctatacgac gcatacatgc ggaggggcta ataccaagaa tgtgtaccaaa ggcccatcct 120
 atatccttct tatagcttct tgagaactaa taacagctta tactcttgct catcggcaag 180
 ggaggaagat acaatcgctg gaaaactctg gctatcatca gagtaagcat actgtaaaata 240
 agatggcaga ggctttaatt ctggtgtggg cagctggata atgcgagaaa gagacggttt 300
 ctcacctgt acctcataaa gaaagtca 328

<210> 11977
<211> 494
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11977

aaaccatcgt gggtaggtg ccttgatana ccgcngaag tagctcggac gccgggatgc 60
tcctntatcg acctgctggc atgccaccct gattgtaatc tactcaaatg tgcacggacc 120
actaagcatt ggatgtgttg gagcagatct gccgctgagc tgcctctctt gtgggcttaa 180
cgtgaagaag agtgggggtat atgatgaact atgaagattg acgtaggcga cgcgttcata 240
tgttcactaa gcgaggttagc acccgctaag ccgacatata ctagtgtgca caacacacga 300
acgggggtgag ctaggcttac aagcggttcc gaagctccct gatgatgcac tgatacagca 360
tgtaaataca gtattctata ctccacaaca cataagagac tatcgagaga aagtgtgacg 420
accagctcg tcgctaccat atcaattacc tataaatatg acatttcaat ttagaaagta 480
cagcctcatt aatg 494

<210> 11978
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11978

tgaagtgatg aagtgcggaa gggtagagact tcctactttt atttgntgac cacagagagg 60
tacctggaga tatgtcgtgg tggtcaggag accttgcgga cgtcagggtg cgtgctattg 120
cccagaacca agcttgacca atctcgacc atcccggga tagtcagtca gtgagaacct 180
gtgacgtacc taaacaggcg agctcttgac agtcaaccga taaaagaaca tagaccacaa 240
agcacggagg cttgtgtggt ggctggccag ctatggatct tgagtaatat ttggagtatg 300
gcctctggta atcgattatc aagggtgggt aatcgattac aaagcttaca catgaatgca 360
ggaagttaag atggcctctg gtaatcg 387

<210> 11979
<211> 405
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11979

agcttggttt tataacttcct gataataggc tgccacacaa cccagctttt agaactcacc 60
 cctactggaa ttccaagata agagaaagga atttccagtt ggctacaatt aagaaattga 120
 gctgcatccc tacaccaacc ctctgatttg cccacataac cgaaatggct ttccaaatat 180
 tcagatagta ttcttctatg tttcttggca tagctttcca atttgggaca tgataggtgt 240
 atagaatggt gcttcatttc atgtaattgt agacctaata gggcagttgt gttgtctctg 300
 ttatgctttt cctttgccaa tatgtctata tagttntgtg ggtacattaa gtcttcaata 360
 gtttcgactt gctagtcatt agttattgtc tttgtgatgt tctga 405

<210> 11980

<211> 279

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11980

gatcactaag cgacagctta tcagtggcta agcgagtcnt attgtcgcta agcgcgaaac 60
 cttacggcca tatctgaggt cgataaagct aagtgccagt catggtagct aagcgagatt 120
 cattgcggca atatgagcgc taagcgagaa cctctcagct aagcgcatgc tcctctgtac 180
 tttagatgca tcattcttagc taagctggcc atagccacgc ttagcgagag ctgcgcgctt 240
 ctaatcagca gacctcgcta agtggacgta ctctcacgc 279

<210> 11981

<211> 401

<212> DNA

<213> Glycine max

<400> 11981

agcttttgat tttccaagtg ccaattcgtc ttcttcttta gtccagtctt cttctggctt 60
 caattcatca gtgggctttc cttctgtgtc cagcatcttg ggatgttccc agcctttgat 120
 gacagctttc caggttctgc tatccagtga tttgagaaag gccaccatcc ttgctttcca 180
 gtattcatag ttgatgacag cacctttgtc aatgattttc ttcatgcctc ttaagtgcag 240

atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggata gacatgtgga 300
 ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc tgctgccctt 360
 cattagaact tcactcttct catttgtcac caagcattct g 401

<210> 11982
 <211> 490
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11982

gatagattga acgaatctag taactaatgc cagctttaat cgtatgtatg gatagactaa 60
 agcagagagt gatcaatata aagaggctca caggtcgtgg tcatgttgtc aagtatcaaa 120
 tgatgtgaaa gaaatgctat tcaatggaca acaatatata taggagatat gataaacata 180
 tgaaagggaa aaggaaaagg aaaagtaaga aagcaataga catgttaagt tatgtaatga 240
 ggtaagtagg aaaaggaata atgaaatgga attaacacaa acattataga aaaatgacta 300
 tattatttta taagttaaca attatttaaa aaatagaata taagtgtatc tctattctga 360
 atatatacaa aagaattaca cagtcagata acagaaatga gtatataata atgttctctt 420
 cgttcttcta cactatatct atgtcttnca atggattatt cacaattgca catatataat 480
 actcatctta 490

<210> 11983
 <211> 373
 <212> DNA
 <213> Glycine max
 <400> 11983

agcttgctca tagaggtcca ggaaggacaa ggcggccgaa ggaactagtt ccgccccgga 60
 gtacgacagt caccgcttta ggagcgttgt acatcagcag cgcttcgaag ccatcaaggg 120
 atggtcgttt ctccgggagc gacgcgtcca gctcaggac gacgagtata ctgatttcca 180
 ggaggaaata gggcgccggc ggtgggcacc actggttact cccatggcca agtttgatcc 240
 agaaatagtc cttgagtttt acgccaatgc ttggccaaca gaggaaggcg tgcgtgacat 300
 gaggtcctgg gttaggggtc agtggatccc gttcgatgcc gacgctatca accagctcct 360
 gggatatccg atg 373

<210> 11984
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11984

cggagaggat gcttcaatgg aggataagaa agagggagag aagtgagagg ngggagcacg 60
 acattgaagg aagaggaatg gagagaagtt gaactttgag ttatgtctca caagactctc 120
 attcatcana gttacaacaa atgttacaca tgcttctatt tatagactag gtagcttcct 180
 tgagaagctt tcttgagaaa acttccttga gaagcttctt tgagaaaact tccttgagaa 240
 gctagacctt agctacacat acccctctca taactaagct cacctccttg agaagattcc 300
 ttaagaagat tcctaaagaa gctagagctt agctacacat acctctctaa tagctaagct 360
 cacctncttg agatgagaag ctagagctta gctacacacc cnnctatata gctaagctca 420
 cncccatgac aaaatacatg 440

<210> 11985
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11985

tttcaccttc tegctaagct aatctggttg cttagagagc ttccgctaag cgcaccactc 60
 atgggctaag tgtgaggaag actctggaag aagatgagct atatagggtc actaagcgca 120
 ccgcttcac tcatccacta agcgagaaag gcacgcgcta agccgaaatt cactaatgtg 180
 cgctaagcgg tccataattg cactaagcgc acgaactcga acaaggccac ctattgatgc 240
 ctgaaatcag attgtagaga cggagtctcg actgggattc agatctttgc atgtctagag 300
 tttctagaga gagaaaggtc caagttccaa agagtcttga gagattntgc tgtgtgaaga 360
 tctgcagaga ccagagcttg 380

<210> 11986
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 11986

tctcgacata tgatgcgccc gaatcggaca tncctgtgtga aattatgacc atttaaattt 60
cgcgagagtt tggcgatggt taatttcgag cgtatcgata tattataagc ctgagtcgta 120
catccgtgtg aaatgttatg accatttgaa tttctcaaga gcttctgttg ttcaatttcg 180
agcctctcga catattatgc gcccgaaatcg gacatccgtg tgaaaagtta tggccatttg 240
aatctctcga gagtttccga tgtttaattt cgagcgtatc gatatattat aagcctgaat 300
cggacatccg tgtgaaaagc tatgaccatt tgaatttct 339

<210> 11987
<211> 598
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11987

ccgcacggca caccgagcga aggagcgtat accgtgataa gatgagaaca agcgaatata 60
caagcaaaca canatatatn tatnntaccn caaaaagaga gagcaggggn tccggacccc 120
cctcgnacac ccacgngaa nanaagannn gnangaggga gananaaaga gaagaaggaa 180
gangaaagag ttgtttttta tggatgaagg annaaggann gaaggagaga gaggagaaga 240
agagaaaaaa gggaaggana agagaggagn gaagagaaaa atagaaaagg ggggagagaa 300
gggaaggaaa tggagaatgg aaaaggttaa aaagagaaaa agagaggaag agggggagag 360
aaaaatagaa agagagaaag aaagaaggag agggaaaagg gaaggagaga ggtgaaaaag 420
tgaggaaaag aagtgggtgat gaagagaagg ggaggaagaa agagaaatgg agggaaaaga 480
gggtattgag agaagagaga aaggaatgat ggaaaggag agatagagag gaggaaaaga 540
aaaagaagat agggagaag aagggaagg aagaagagga aaagaaaaga gatgagag 598

<210> 11988
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 11988

tggattgag gtttaagaac cattattcac tttcgatcta acgaanacac tgtttatcgg 60
 tgtatgtatc tgaaggtcag tgcgagtaag attattttct aattctgtat attgatgata 120
 tcttgcttgc agctaattgat cttgggtcttc ttcattgagac taagacattg ctctctataa 180
 actgtgaagc gaattgatatg ggtgaggttaa cctatgtgat acggatagaa atattccata 240
 gtagatcaca tggattcgtc cgcttatctc agaaagtata tatatcgatc aagtgcctaga 300
 gagatttaag atgaataggt gtttaacatc gcctattcta atttagaaat gagacagagt 360
 tagtcttgca caattgccta gaaatgatat ggaatg 396

<210> 11989
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11989

agcttggttat aaaataaata ttgaatggtg gattaagttc tgcactattg aactacttag 60
 acaatattaa aatactcaaa gctataaaat atgacaacta tcaagataat cgcgttgagg 120
 agttcttact aaaatatctc ttgccgtata aaagggtttt ctctatttaa cgctacccta 180
 gtgttcttac actgagaaaa tacttagacc atgactctc acatgaatga gcctaactct 240
 cttagctttt gttcttgatt cctcaacaaa cttgctctaa cagagttgca ctaagcatac 300
 agtgtaaaat atactagatc attgcactcc attcctagac atacaaattt ctagcttact 360
 ctatcaagtt ctaaggtttt aaagaattnt ccaatacta 399

<210> 11990
 <211> 498
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11990

agcaacgctg ttacgacgga ttcaangcaa gncnnnncng tangttagaa acccaccctt 60
 agtaaatgtg ctcttgact acttgntntg ttgtattaag ccagatgaa agaagggatt 120
 cttcagtgcac cacagttttg taattcggct gctcgaatta ttttgtcata cgaaaatata 180
 aattgttgat aaagcgctta taacatgaaa ttcacagatc aaaatgatta agagggcatt 240

tggaagaact ttcacagagc ttttttgagc ttctcttatac aattattgta tgaactccta 300
 aatttaaaat tgaagatgtg tggttaagct tatgataatg gcttatggcc cttctataaa 360
 ttctttcttg ctcatcacia taagtttatt gaattaagct cttatgatata aagttctcat 420
 ggaanaaagc ttttataatt atantaggac ttanataagc tattttccca agcgtgcaat 480
 aagtcagag acaattcg 498

<210> 11991
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11991

agctgngtgn tntgcaattc taagacacta gagagcgggc aagtatatga catgtcccac 60
 ttgtactttt tctatctaata ttgcatcctg caaaatcaga atatgaaaaa cctgttatgt 120
 ttaaggaggt acctttaaga taccacataa gcaaacactt agcatgatata ccaatctact 180
 tgcagatagg tagagaagcg attcaatcat acctctgtat cttgattcat ccactaattt 240
 acctttctca tcaaacgtaa ggtaggttga tgtagacata cgagtaaatg cttctttgca 300
 ttttttcata ccaaatttct ctatcgagtt tatgcaatat ttgagttgac tgaagaaggc 360
 tccatgtatc aattgcttga c 381

<210> 11992
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 11992

tttgagaaca ctnttagtt atgctagagc ttagctacac acacgcctct tgtaactaag 60
 ctcacctct tgagcaagct ccttaagaag agtcctatag aagatagagc ttagctacac 120
 atacctctct aatagctaag ctcacctgct tgagatgaga agctagagct tagctacaca 180
 cctctacaa tagctaagct ccccccatg acaaagaaca tgaaaataca aaaaaaaagt 240
 tcttactaca aagactactc agaatgcccc gaaatacaag gctagaaccc tatactacta 300
 gaatgggtcaa catacaaggc ccagaggaag gaaaagctca tctaatatnt acatagataa 360

gcggcgctcat acttaggccca tgggctcgga atctacccta atgctcatga g 411

<210> 11993
 <211> 380
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11993

agtttctant atgttgcatt tcttccttga tgctcacttc gagctcaa atccttggt 60
 ctgaaaaact gagtcttctc cagaacatat ggattgaatc cagtgggatg caaccaacaa 120
 catatttgga tagctcacia gcacaaggaa gaccgtgctg ggttctcatc acacaaccac 180
 aagtggaatg attcttgcta gcatagtga catgctcaaa ttcagcagca atctggttta 240
 aagcatacct tgaaccatt ccaagaagcc tctnttataa gggttttttt aagacatgtc 300
 caacgacatg tgcacttggt tcaaatgata ctctaatttt cgtgtgttgt agcgtcatca 360
 tgttggtcat ggcattccag 380

<210> 11994
 <211> 394
 <212> DNA
 <213> Glycine max
 <400> 11994

catgttatcc atgttgtctc ctctatctct aacagtgact acaggacaaa gttaacaata 60
 agccgggaat gtattaatgg catgatatgg tacctgcac aacttgctat ctattagaag 120
 cttatccaca taatcttgat gcagggtcaat aagcacgcta aaacttcttt aacatgaatt 180
 cggagagagt ttatcaatgt atgatgcgaa cctgattacg agcggaatgt ttgatacatg 240
 ctatggagtt ctggatgacg ccacttccaa agagggaaga taagtcattg tagatgccac 300
 ttctggtgaa tgaagataag tcagggtaga cgccacaagg attaccttga taagtctgat 360
 aattggttca acaaggaacc cagagagaaa ctct 394

<210> 11995
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 11995

agccacttgt gnttctggtg aagcaaaagc gacatggcgg ggacatacca gaacttgatc 60
tgacttacaa agccatggaa ccagcagagt gactttctgc tttgcaaatt ctgataaata 120
tgcacctga aatagtgggt atacagctct tcccgtcatc caaggaagac tagtagttgt 180
cactattgca acatgtctct cattggccaa tcacaaaaca agctttctac tatgatgcca 240
cataagtttg caatgcaatc agatttgaat aaattgtgaa aagagaatag catatcgaat 300
gaatcttaac ttgtataaac taactgactg tctagaaacc tactacagaa aaagcataga 360
tctaactctg ncagctcatc aataattgat attgcaccaa a 401

<210> 11996

<211> 497

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11996

ngccactcta aactgggngc tagcactntc gngccactct tagaatacta acgctatgtg 60
ctntacacca aatagacacc aaattcctct taccttatat cattattcaa agataaccca 120
actacctaaa gaactttgac ctgagtgaac aattaattac cttggcagac ttagtacctc 180
acttcctagt agtagttttc ttaaataagg tagaaacaac tggctcaggg gcaggggttc 240
aacaagtcga gccgtcaaaa gtttacagag tgtctctcgt ataacttttg taggcacagc 300
atcttctgaa agtacatggt ttaagattga ataatttgaa aggattcatg actttgagac 360
atatagttga gctcaactgt tttaaataca gtactttcaa catattattc ataatcaaga 420
ttatgtttga ttaaattcaa tatactgttc aactataggt ctagtaataa atctccctat 480
aacgaaatnt agaaagn 497

<210> 11997

<211> 222

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 11997

gagagaaatt gaactctgaa gcgcgtctca caagatactc attcatcaaa gtaatgacaa 60

ttgagacaca tgtgtctatt tatagcctan tacatgggaa gcttccttga ccagcaacga 120
 aggtagcttc cttggcaagc taggaagaaa gcttccttga gaagctagag gatggctact 180
 cacacccctc caatagctaa gctcacccca tgccaaaaca ca 222

<210> 11998
 <211> 472
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 11998

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 attttaatag ctgttgtaaa tcagtttttg ccactggtaa tcgattacat cctctggtaa 180
 tcgattacca gagagtaaat ctcttgaaaa agacttttta acttaaattt cttggccaaa 240
 ccttttgcta cttcaatagg aattcccttc ctattttaat atactctttc taagactcta 300
 gaaactgtct tgatcgtcca tcttgaatat ctttgtcttg aataaagctt tgagaaacat 360
 gtaacccttt ggcaagcttt ccctttggca tcatcaacac attcagcttg atcatttgtc 420
 tacattgtga acaacatttt aatcaattct atccgagtat ttatgatatg ag 472

<210> 11999
 <211> 405
 <212> DNA
 <213> Glycine max
 <400> 11999

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 ttatgaagag aggcataaac caggtggata aagatgaatc ctaaactgaa ttgggaaagc 180
 agatgtaggc tcaacaatga acattgagac actcatgaga gctcaagctc aagttccaat 240
 cgctacacct ccattcccaa cctatgatag atgtcagatt gtgcatgggc cagaagaatg 300
 cactattgat gataagctag ttgtagccat gcttacggga ggaacaattc ttataatttg 360
 tccccaaaa atttcaatca aggatagggc tttaagcata attac 405

<210> 12000
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12000

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 ttcatcangg aactgatgaa atgatgaaat tgcagctttc ccttctgtag tctttgactc 180
 ggggaagtat tacttcagaa atatatcaac aacttcttcc cacgtcttta gactgctacc 240
 cttaaatgaa tggagccacc tcttggtctc tcttgccaag gaaaacgaaa ataggctgag 300
 tttgatggct tcatctggta tgcctgcaat ctttacagtg ttacaaatct caatgaatgt 360
 tgccaaatgt gcatag 376

<210> 12001
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 12001

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 agaccaaacy aagttgtgag tttttctatc aatggcggca tagattgact aatgcagcca 180
 gaatagctgc ataatgtaca ttggaaggga ggataggaca tatttagcta aacaaagtca 240
 tccagcccta ttcaaaagtt tccctttcca tgaagctagc cttctatgaa ttttatccaa 300
 gataaaatcc aaagattgat ggtgttgtct cccttgacc aaggaaaacc ctagatagcg 360
 gccaaagttg gaaacactcg cgatgccaca aacatccttg aata 404

<210> 12002
 <211> 342
 <212> DNA
 <213> Glycine max

<400> 12002

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 cctcagcaac acaaccaaca acacgagaat aactatgatc tttcaagcaa tagattcact 180
 tcacgctgga gagatcatcc aaatctgaga tgggcaagtg ctgcacaaca acaacaacct 240
 ggacgtatatt tgcaaaatgc tgcgtggcca agcaagccat atgttcctcc tccaatacat 300
 tagcagcaat agcagcagtt acaacaaaga ctacaagcac ct 342

<210> 12003
 <211> 199
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12003

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 gtacctggag atatgtcgcg ggggtcacga gaccttgggg acgtcaggcg gggggctatt 120
 gcccacaacc aagcttgacc aatcccaccc caaccggcc ataccgggc aatgagaacc 180
 tgcgatgtcc ctaaacagg 199

<210> 12004
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12004

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 ccagggtgat tggttacagc gaggaaaagg gggggggggg gagcaaaaaa cccacaacag 120
 ccgcgagag gggaccgga gcggcgaagg cgaaccgacg agggcgaaac ggcaagaaaa 180
 agcacgagcg ccaaccgcca cgcaggcgca caggaccaca ccggacagcg gcgcgccgag 240
 agccaacagc gaaaaggggg agagcgaaca nggcgaaggc agaccgaca gagcggccga 300
 ccacgagcac ggacgagcgg ggccaggcgg ccgcgaggg agcgaacgag aaaaggcgga 360
 agacgagaga agggcggccg gggagcccaa aaagcgggg 399

<210> 12005
 <211> 401
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12005

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tccatatttt tttccaccat gaagcccat gatgtccaag aagatcatat ctttctaaag 180
gcttttcctc attctctgga gggagtggca aaagattggc tatactacct tgctcccagg 240
tccattttca gctaggatga ccttaagagg gtgttcttgg agaaattctt ccctgcatct 300
aggaccactg ccatcagana agacatttca ggcatcagga aacttagtgg agagagcttg 360
tatgagtact gggaaagatt caagaaattg tgtgcaagct g 401

<210> 12006

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12006

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ccatgtggtt ttctttcttt ctccaaatc catttctaaa gttccaaata ctttctccat 120
caccacatc caccattagc caccacaaac catcattggt ctccattgaa aaccacacc 180
gagaggaacc cttcaatcga agcagaattt ccaacttggc ttgcgatttc ggtagagaac 240
gaacacccta atctgatctt tcattntctt tcgaggtaac catggntcta tgcttgnttc 300
ttgttagttt catcttgtct ttgcattctt tctaactttg caaccgccat tgcatgtctt 360
atngcttctt tgaaaaacct tagagaaaga gaacttgtaa acattatcct ttcatgaaat 420
gcatgttatt nttgtaacta cactgaaccc cggcacatt 459

<210> 12007

<211> 238

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12007

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ctgctcaatt tcgagcctct cgacatatta tgcacccgaa tcggacatcc gtgtgaaaag 120
 tcatgatcat ttgaatttct cgagagtttc cgatgtttta tttcgagcgt atcaatat 180
 tataaccgtg aatcggacct cagtgcgaaa agttatgacc atttgaattt gacgagag 238

<210> 12008
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 12008

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 aatcatacat ccgagtaaca agctattgtc gtgtgaatta tctctgatgt tcacaattcc 120
 atttcaagcg tctcaataga ttacgggact caatcagacg tccgagcaaa aagttattgt 180
 cgcttgaatt agcttagagc ttcaaaattc aatttcgacg gtctcgatat attacgggac 240
 tcaatcagac atccgagtaa aaagttattg gcgtttgaat ttgctcacag cttcaacatt 300
 caatttcgag cgtgtcgatg tattacggga ctcaatc 337

<210> 12009
 <211> 578
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12009

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 accgacaccg annnncnnnc annccannnn ggcagcgccc catnccccctn ganaccccg 120
 ngagannnng annngnnnng gggggnnnnn nnagagngga nnnnggagaga ggggaagnggt 180
 tgttggaaaa gnggaaaggg annagggggg gagaatagaa gaaggagaaa aaaagaaggg 240
 gagagggaaa gaaaggggaag aaggggggag aaggaaataa gagaaggagt agagaaaaga 300
 ggtagaggta ggggaaggag gaggagaaaag ggaggagata aaaggaagaa ggagaagtgt 360
 aaggggaatg agaaggaagg gagggggtag atgagaataa ggaaagggaa gaagtaagaa 420
 gagaagtagg ggaaagggat gtagtaggga gaaggagaga attaaagaat ggagaaaaga 480
 taggagagaa aggaggggaat taaaaaggaa ggagaggaga ggagggggag aaggggagaag 540

aatgagaaaa gagaggggga aggaagatag aagagagg

578

<210> 12010
<211> 89
<212> DNA
<213> Glycine max

<400> 12010

acctgaaact aatgcacctc gaaattgcct gcaaaagagc gagataccaa actatgatta 60

tatggaggat ttgaagacgg taagacttt 89

<210> 12011
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12011

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cagagagtaa aaactctttg gtaaaagggt ttgtgaaaaa ttcattgtgct actcaatggt 120

ttgaaaaact ttgaaacttg aaacttgaaa cttctcttga atcttgatct tgaatcttga 180

attgttcttg actcaatctt gaaatcattc tcatgggctt tttgtcatca tctttgttat 240

catcaaaaca ccttgaatca atcttgattc atcatcatga agcaatgaag cttgcttcta 300

cagagaagag aagaatatta ctgcaagaca ggacagtagt gtccattctt gaggaagaaa 360

ctcattnttc tgattcttca tcatctgatt caccatcatc 400

<210> 12012
<211> 493
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12012

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cagctcgccc aggcgagcaa ggttgcttct tccttatttt cagccttctg gaggaatctt 120

ctggagggcc caagtgggcc tgggtgctat ttgcaccctt atttttacta aatacacccc 180

ctgccttttt tttggtgatt cttttttcgt aaagttacgg aaacttatga atttcgtaac 240

gatacttgtt ttctttccgt aatgttacgg aaccttgccg attacataat catccctttt 300
 ttgacttacg gaatgttacg gaacctcact aattgtgcaa cgatgcttcc ttttgatttc 360
 cggggtgtca cggaacctta cggattgtgc accaatatta tattatgatt tccggcacgt 420
 cacggaatth atcatattgc ctaatgatgg gtgcaagcac cttaaaatga ccaaacacaa 480
 gttgcatgcc acg 493

<210> 12013
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 12013

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 atatattgag acgctcgaaa ttgaattctg aaccttagag ctaattcaaa cgacaataac 120
 tttttactcg gatgtctgat tgagtcccgat aatctattga gacgctcgaa attgaactct 180
 gaaccttaga gctaattcaa acgacaataa cttattactc ggatgtctga ttgagtcccg 240
 taatacatcg agacgctcta aattgaatgt tgaaacctct agctaattcc aacgacaatg 300
 actttttact cggatggccg attgagttcc ggaatacatc gagacgctcg 350

<210> 12014
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12014

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 ttccatatca attattatgc ttacgcttca ttgttaaaag ctggaccaca caatacaaac 120
 tcaggagcac cttaccatat atatatatat atatatatat atatataacg caaaacacgt 180
 aaaagttgca tcatgttttt ttggtaagcc attgaaatgc attaataaaa aatcgcacaa 240
 gatgtgtcag gtgtaattta aggaactcga tatatcattg ttatccggcc gtacttgtaa 300
 tggcagtgaa tgtgaggcat tgttcagtag tctgaggatc acatgggaact atgata 356

<210> 12015
 <211> 390

<212> DNA
<213> Glycine max

<400> 12015

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gatggccttg attttctcag ggtccacttg gaccccatth ctaccaacta caaacctaa 120
gaaaactata ttatctacac aaaagggtaca cttctctata tttgcataga ggggtgtttt 180
cctaaggact gaaagaactt gtctgagatg tcctaagtga tcatctaggc tcctactata 240
cactaaaata tcatcaaaat aaacaactac aaatctacct atgaaatccc ttaagacatg 300
atgcataagc ctcataaagg tgcttggtgc attagtgagc ccaaaaggca tcactagcca 360
ttcatacaaa ccaaacttgg tcttgaaagc 390

<210> 12016

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12016

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tacctactac aaagactact taaaatgcc tgaaatacaa ggctaaaatc ctatactact 120
agaatggcca aaatacaagg cccaaaagaa ggaaaaacct attctaattg ttacaaagaa 180
aagtggaccc aaccttggtc catggggtca gaaatctatc ctgagggttca tgaaaacccc 240
agggccttct ttagcaactc tagcccaatc ctcttgaggc cttctatcca atacccttgg 300
ggggtaggat tgcacatcc cctccacctt ggaaaggatt ntacctcana tcccagggtt 360
tttcatactc tcgactnctt cctcaacac ctgtaaaaag aa 402

<210> 12017

<211> 278

<212> DNA

<213> Glycine max

<400> 12017

agcttttttac attcacgtgc cttatggagc tcagagcctg aacctccgcg tcaaactcct 60
ttgacttccc accaccaccg tgcttggtcc caagcatggg ggtgctactc cagagttct 120

ttctccttgc agggacatcg gtgttccaaa tatgcttcac cgcgagttct tccccattgg 180
 aaagagtgc cctgtacacg tccccgagc ctctatccc tatgagattc tctgcttga 240
 tggaatctac aatctctccc tccgagaaac tcatcacg 278

<210> 12018
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 12018
 gcgatcgctc aataactcca gaggggagta tgtgaacgaa atctctgcac tccacagact 60
 aatgcccagag cttaaagtta ttacaccag aaccataatg aaaagtttaa ttcaacaaag 120
 aacgaatata atattacggc gacaaaattc gcattgatgg ggaaatgcga tgtcccattt 180
 tgccaacatg tgaaagctta tagatgaaac tggatagagg actcactatc agctgcatac 240
 atcttgagct gctcaagaac tgtggcatta tttggagcaa ccgatgatgc atcagaggcc 300
 agagcgttcc acgaataaac c 321

<210> 12019
 <211> 173
 <212> DNA
 <213> Glycine max

<400> 12019
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 gcttcatttc atgtctgcct gaatgggct atagcctata ccgtacttgc cagcatgacc 120
 ttgggcattt atcagtctag atatgccggc gttggttgtt tctaaacca ttc 173

<210> 12020
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12020
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 gtgcttgacc atgaaacct taatccactc gtgacttatg gaagaaaaaa aggccctttt 120
 aaagatttcc tgaatcgtgg cgatagaaga aaacctttgg ccaataaagt ttctttttta 180

ttattattca acttgcactg tcctattgat gaacaaaagg ccctttcttt tgctggacca 240
tctccctcaa gtgaaaaatt gacttgaacc taaatctgct agttgctgcg ttcttgtcca 300
tatcccgttc tctggacgca gggcagggtta gagcacatat tattcaaacc tcgataaacc 360
cgacgtgttc aatgtggctg taaatcaagc gacaaaaat gatttactat tatttgaata 420
ccctacctcc agtatgatct tccctatata acccgaaacc g 461

<210> 12021
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12021

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gttctggtat ccttttagta actctaattg aacctcttat cagttcaatc acaagtttag 120
tttcgacttt tgtaatccac cagagcaggc aatagttttt tttatccata ggaattgaac 180
acagtaccaa gaggtttact acacttacac actgctcaac tagaataggc aataggcttt 240
tgtatctgta ggaattgaac acagtaccag gaggtttaca acaatcacac aaactgttca 300
atcagaacat gcaatagtag ttctattact tatagatata catttgccat tatgtcatgt 360
gcatatatat atatttcata tattaataaa aaaaattatc atctatttgc ttatctctaa 420
gttggatttc 430

<210> 12022
<211> 262
<212> DNA
<213> Glycine max

<400> 12022

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aggaatgccc catatcattt gcatgacacg catatgataa tgatgattag aaattcatgc 120
gaaactgata atagcacaca tccatgtgga cactcaaaca taaagctttg tggccatgaa 180
acacttaggc ttacggtttg ttttccccgt tcaatcaacc cagtgggttc aaacaatgca 240
ctttcatcaa gttatgcaca ca 262

<210> 12023
 <211> 538
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12023

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 gacganggcg cgcccacccn ncgagcggcg ccatgaaccc tgtagagctg atacatagca 120
 aacggcagan agaagccaag ctgacgacac ggcgcccaca catttgtaaa ggagttacgg 180
 acagggagcg gaaatctgcg atgacaagcc acaaaccac acccctgtgc cgacccacag 240
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 cggggcgaaa agccagaaac agagaccac tgaaggcccc ggaggagacg gaacgcgggg 420
 agaatgcgga cagaaaaatt aaagaaagag agaggaggcc ggaaaggcgg ggaaaatcaa 480
 cacatcgaga cagcagcgga gcggcaaggg ggaggaaaga gtggtacaag aagagccg 538

<210> 12024
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 12024

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 aggctaagcg cacggaagaa acagccacaa gatgagttgt ccaggtacac taatcaacac 120
 cgcttcagac catccgatta gcgaagatag gcaaccacta agccgtaaga cgataatgag 180
 ccgcacgcga ttcaaagatg cactacacgc acagcatgag caaacgcacc tataagccag 240
 aatatgatta acaaagacca cagcatgcc aacaatctag agagagacaa gccaacgtct 300
 aacagaggtg agagatccgc cagagaaaa caagaacacc ccacctgaac tgaaccacct 360
 gagactcaga tgatacgcaa agatgtacat ccaaacgcga agagacgacc accagttgac 420
 attcc 425

<210> 12025
 <211> 407

<212> DNA
<213> Glycine max

<400> 12025

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acgtagatta gatggctcta atcaaagccc attccttcct tctacgtatc cattatatat 120
attaatgtag ttagttagtc agttatttca ttctatacaa aaacaaattt aaaaacttgt 180
tgcggaagtt ttaggattaa actttatctc tcaattgggc ttcattcttc ttcctctctt 240
caactctgtg atacctgtat tcttgcataa attccattgc tctttcactg gtgatgatta 300
ttgaaggcta aacaaacaat caatccaaag atccactcca tgcagggtga acttgagttc 360
tagtttagta ttcaaatttg agtgaatggc atcttttttt cattcta 407

<210> 12026
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12026

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gaattgccat tccttggatt acgngttga accaagctca tgcttttaca aaaagggtca 120
tcaagtcaag ttgaaatatg gaagtaaccg tcttgcaaaa ttgtggcaaa agatgaatca 180
agtcacatca ctgcttcgtc tactgcaaaa catatttagg attgttgatg tccttggtac 240
ttccagattc accttggcaa agatgtcatg gaccatgttg aatatctaaa ttgattcgac 300
cccatatcct gcgtaacaat ttgcaatact tcaattgtac atcattcgca tacatccatg 360
cttttcattg gttgcattgc tcattgcatt ctttccttg 399

<210> 12027
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12027

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atccgggtgg gaggaatcat ccaaactctaa gatggggaag tctccacaa caacaacagc 120

Chickadees

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<223>      unsure at all n locations
<400>      12028
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<210>	12029
<211>	409
<212>	DNA
<213>	Glycine max

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agaaaacaat	attgaaatac	gacggtatgc	gactatattc	ttcggtgaaa	aggaagttat	180
tatatgttta	caatatat	ctatagcaga	tttttacatt	cacccttttc	ttgtatctct	240
ctattatac	gtatttatct	cattctgtac	tttttttcct	tcttttatgg	cgcttttaaat	300

tatagaagaa gtatacaaag aagtaataata acacttcgct aacagatttg acatgtattt 360
aacggttggg tctaatacgt tctttgcatt ataagataat acgtgttca 409

<210> 12030
<211> 514
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12030

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ggtgatccac gacaactgtg agcccagcgg cagaccggg gaggaaccag cggcaaacia 180
cgaccgaaca aactacggac acaaaggctg cgagcaagaa ggcccaacgt agccaccgcg 240
gcaacaaagc agggccaacc atgcagaagc gagaaccaga gcaaaagcag ccggggcacga 300
aagaaaaagc gaacaacaac gacctatggc gcagggacga cgagtaccaa ggagaggacc 360
caciaagacc cagcaaaggc cagccacgaa caggccgccc agcgatgaca agacaccggt 420
gacccaccg cggacaaggc tgtgtacaac accggtgggt ggagggggcc gaccaccaa 480
acatagtcac gaaagcgaca tgaaggaaca accg 514

<210> 12031
<211> 616
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12031

ccgcctcca cgtcgaccnn ctttgttgn gatgaactat gcacgaatac cactatanta 60
ttcatanann anaaagagag aaggnnctga gacagtgaac aactgcgaa taccgcgag 120
atcnagcgtg gnaccggag atcctccaga gagcaccgc acgcatgcaa gcttctgttg 180
gaactttctg acttgcatc caatgtgaca tacgccacag attctgcctg cgtatattgt 240
cagatagga aagcctataa cagcagcaa gcgaatgatt ttcgtgatgc ctcaagcg 300
cacatgtccc aatttatgat gccaaacatg gactacatct ccctcgta acaaacatgc 360
ggaggacgaa ccggttcct gaagagtaca tagagaacia cagcccttg atctgctgcc 420

catcactaca gacacaatct tatcattagt cacaccacat actgactatg tgaagagaca 480
 tcgaaacctt ccgacacagc tgcctgatgc tgccaagcat gcacacaagc ctcaccagca 540
 gtacttcgcc agatagagac gcatctaggc aagctcacca ctcaatgaga tatacatata 600
 gcaacaccca atgtcc 616

<210> 12032
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 12032

aacccccacc aattgtgaac gcattccaac cccccggcc tgcttactaa accaacaaca 60
 cggacagacg gtttacatgc gacaagcgaa gaccacaaac cactaccggc gacagcaact 120
 agaccactgc cagacacaaa aaacgacgta aacaaagcag aaacgaaaaa cgggactgaa 180
 aacccgccag caacaagaca atcgaaaaac aacgaaagga tagagaaaaa cccaccacaa 240
 cggaggcaag aaacgccc 258

<210> 12033
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12033

cagcttgtcc ataaatatat gtnntttgaa gttgtcattt caatttctta ctaagtaaaa 60
 tggatcattt tcaagggtcca acgccttata atgatcacct cttaagtaaa aaagaaatca 120
 cttgataaga aagaactacg tangtctgat ttctcatca caaattgagg aatacgtagg 180
 agcaaaggga aacacccttg tcgaccacaa aaagagaaaa atataaaaag ggtataagga 240
 tatatagaca taaaaaggga acatataaaa tcaaagtcac gtttgcacat tcgattaaag 300
 gctgccgtcc cttgggacgg acgtgtggtg tgctaatacc tttcccgtag gtaaatacaa 360
 ctcccggaacc tttctcttaa tagatcgtag atcgcgcttt ttccg 405

<210> 12034
 <211> 169
 <212> DNA
 <213> Glycine max

<400> 12034

cattatctca ttgtattttc taggatcatc attctgcac acattcgaca gtgactcgga 60
 caaagattga atcatttgtc gtatcccaga cagtcatcta ggtaatgtca aatgccatct 120
 gtactgttta ttacattagc tgcccttctg ggctgcatcc ataaacgtg 169

<210> 12035

<211> 453

<212> DNA

<213> Glycine max

<400> 12035

tattatatat tcttagatcg agaccccaca caccatgacc gtcgcctgaa cgcaagaaaa 60
 cacgtgcata agcagagcga ctctggccaa atcatattct catagtagag acttcactac 120
 tcagataacc cagatacata ctctatctta cgatatgtta agcgtaggat cgacatgaca 180
 gattaagtga aagtgcctag tagatataat ggcatatga cctgtgggaa tctgtataaa 240
 aggatgagaa gcacatacgt gctgattgcc cataacgctc gatgcactat gcagttttac 300
 acatgagcta taattctgat gaccaattcg acatgactgt tctgcataat atggcagata 360
 cccaaatcat tctttttctac atgccatttt gataagatgg atgctgcaag cctagatatg 420
 agtaatcgta ttataccaaa caagctctaa ccg 453

<210> 12036

<211> 582

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12036

ggatggacgc ccncntttg atngccagct tgaatngcgc ttcgnannga ccncncncn 60
 nttingcgga gannaccgtc ncngnacncn ncnnangnc gcnannatnc anacagtctt 120
 tttcataata tatttatgta cncgtgtgan gtcacaaga gacccatcga agattnagta 180
 tgaactgact ccaaagtgta cacatcgtag acattnctta cactaacaat ccgacatggc 240
 gtgatcatca tacatagcgc gatacggctc taggttcata ccgaccgata tgctcgctcg 300
 tcaatgaagt gacgcgacac ctctgtcacg acacgataac acggctcact atactcccta 360

gaagaatagt atgcaactaa cgactaataa acaatttaga acgagccata tcctcatatg 420
 agtacgataa ctaatagtgc gacgttactc aatgaccatc tgcacaaaa tcaactaagt 480
 cattctactg tgtctaaacg taaatcgcta atcactgctg tcgtcgtcaa cactgtaaag 540
 caaacggcga gatcattgga ctgactggat atatgtgtac cc 582

<210> 12037
 <211> 619
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12037

tatgggggna cgggcgtaga gaccgtcgta ctaccctgga agnacactac gtactatacg 60
 gcgaatncta gctcggtagc ccgngatgc ctctagaagt cgtacctgca gggcattgcc 120
 aagccttctt tgatgcanna ttgagnnnta tccctgtctg aggggtatgcg ctatcaaagt 180
 aggtngacat ntcagaaatg agtttgaagt ttcgcatgaa cctttgtcaa tagacttagg 240
 tgatttacat ttacatgcgt ggtttcattt gccgcagtag tacttcaagc attgtattga 300
 caaggagaat gtcattgtga tcgaagcaca aatgcctgca caatatgcaa cgcattgtcg 360
 gtgggtgaca actgccatgc gtggtcttga agtgcctaac atagatccta cttatgcaaa 420
 aatgagagca gtatggtttg ccttactttt caagctgtta agcaaataagg tgataattta 480
 agaaacgtca gatcatggca catgcctgct tgtgtatgta attgtanata aagaaaatag 540
 acttcgggtg caattatgag tcgcatttat tagtagcttc cgttntgatc ggtnngagaa 600
 gctgcttata ttcnacatg 619

<210> 12038
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12038

tatacgctat taaattatga attgtgtaaa taaccgtgcg cganaggatg ctgacactac 60
 gccacggctg tntcttgaac tggtactgng actatgccta cgtgaatcat cctacgaagc 120
 acataanatt gaacaagtta tgtctttaca tgaaaacata tctaattggtt ccaggaccat 180

<211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12041

cacaacaagt ttttccacat ccacaatgcg cgcataaacc caccatcccc tgtagcccac 60
 ctncaactga gctcacgtac tcccacgtag cccatatcct cgtttctctc aacaccgggt 120
 ccccatcaat cctcccaagc ttccccaaca tcaaagtaat acaacattca aacagcacia 180
 actatcacag ccaagaaaac agagcagagg cagaanactc tgccaaaaca ccaacaaaaa 240
 tcacagcttt tctcacttaa agaccccagt acaattcctt cgtccaattc gtaaccgtgg 300
 atcgactcaa ttttactgaa gtcttagaca taacctacat ttgaccgggtg gatctact 358

<210> 12042
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12042

agcttgaacg agctgatgaa tcatgtcgtg caaacgccgg agcggcactg ttatctggca 60
 cgattgttan gattcgacta ctctatccaa tatcggacag gtaatgtgaa tgtgggtggca 120
 gacgtgttgt cgcgatgctc agagttaccc aatgctgctt acttcgtcct ctccatgccca 180
 cattntatat tccttgaaga tctctccaaa gagttgcagg cgcataatga gtatgttact 240
 ctacgagaca agattcaaata gaaccataa gcttatccag ggtatgtgct aacacctaat 300
 tttgtgttac accattggcg catttggtta tcttcatatt gcaccttcat tcaagctcta 360
 ctcacagaat tccatcagac accaactggg ggtcacatg 399

<210> 12043
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12043

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 atattgagtg aggcataacc gcataagcat ataatacaaa ctcttctagt ttattgatta 120

tgaccagaca ccagtccttt attatgcctt gaacaggtgc ttattcatta agttttttaa 180
 gttcttggtc tttgcaatat gaatacataa acttaagata aaacttatag aaattagaca 240
 gttctgtgaa ttacttgagc aagagcactc agcgtctgtg gtatttcata tacatataaa 300
 gaatgaatac tttntacact tacaaggaca ataataagga gttaatatat agtttacaac 360
 tgattggtgc atgatttgat gtttcatgtg agagaatctt caccctactg atactgacaa 420
 acagtttctt ttgt 434

<210> 12044
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12044

agcttgacgn ctcctttctg atcatggctg aactgaacag aaagtaccca caaacatgca 60
 ctaaattgcc tataaactca aaacgtgttt aattgaattt atgttaaact ctgtcatatg 120
 tgttgacatta caattatgag gcatctcact gctaaatttg gctcagcttg gaccttctgg 180
 ccttgctgcc aattggcttg ataaagatag tttactgcat cgctcgattgc tctctanggc 240
 caatctctag gacgactnta aggagtttat cttattatta tgacatagag gttgattgga 300
 ttagaatatt tgaatactgg aacttcaaaa gagtcagatt actattcatg ccttattctg 360
 gaatatgaca gtttgcttga tgtttatgta cct 393

<210> 12045
 <211> 391
 <212> DNA
 <213> Glycine max
 <400> 12045

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 aatttcttac atgacgttga gattgagctt ctatgctgaa gtggcacaac ttcactcactc 120
 ttaacactat gtcatagctt caagcattat gtgattaatt acttttagaga gacttagagt 180
 gagtctagtt gatgttgagc tagtgatgtg tccaaggcca tactgagtag tgctcttaag 240
 tccttcgatt agatgcgtct catcagtgcg tttcatggac aacttcatca ttcaacaatc 300

ttgcatcttt gtatgcaatt agttcttact ttctaattgtg cctccaatga ttatggaagc 360
aggtgaaaag tgaagaactg ccaaatttga g 391

<210> 12046
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12046

agctctgagc aaattctggc gacaatatct atttactcgt atgtctgatg gagtcccgtc 60
atataacgag acgctcgaaa ttgaatggtg aagctctgag ccaattcaca cgacaataac 120
tctgtactcg gatgtctgat agaatcctgt catatatcga gacactctaa attgaatggc 180
gaacctctga gcgaattcaa acgacaataa ctttttactc agatgtctga tactactctc 240
agaatatatc gagacactcg aaatcgaatg ttgaagctct gagcatattc atacgacaat 300
aacgtgttac tcggatgtct gaacgagatc cgacatacat cgagacgctc ataattgaat 360
gtngaagctc tgaggaaatt ctaacgacaa taactntnta ctctgatgtc tgagcgagac 420
tagcacatat 430

<210> 12047
<211> 470
<212> DNA
<213> Glycine max

<400> 12047

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ttggctcaga gaggcaacat tcaatttcga gcgtctccat atattacggg actcattcag 120
acatccgagt aaaaagttat tgtagtttga attagcttag agcttcaaca atcaatttcg 180
agtgtctcgt tatatcacga gactcaatca gacatccgag taaaaagtta ttgtcgtttg 240
aattggctca gagcttccac attcaatttt gagcgtctca atatattacg ggcttcaatc 300
agacatccga gtaaaaagtt attgtcgttt gaattggctc agagcttcaa cattcaattt 360
cgagcgtctc gatatgtgac gagactcaat cagacatccg agtaaaaagt tattgtcgct 420
tgaattggct cagagcttca acattcaatt tcgagcgtct cgatatatta 470

THE

gagctcttca	actattcttc	tctaacacaa	ttggcaggat	tgatactatt	cctgcactgt	60
acgagtcgaa	ccaaccaatt	caaacaagg	tcatattgca	ttgacttggt	ttggtcattg	120
aaggcatgca	ttgatgcagt	tgcattttgt	acaccatttg	tgcaaatacg	tggaacatgg	180
atatatggaa	gatacatatg	gatgctatta	attgcattta	cataagatga	ggctataaac	240
atatctacat	tggtattcgc	cattgtcgat	ggtgagacag	cagatgggtg	acatttctgt	300
ttttttcttt	gcgaacttga	gatccatgta	caccaacat	ggatatgtta	atctatga	358

<400> 12049

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cgaccaacga aatctgtctt tggccaagag ttgagttcaa ggtgccacta tggaaacgta 120
tccttaata aacctccgat agaagcctga caagccgaga aagcctctta aagctctggg 180
a 181

<400> 12050

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gcatatagag	agactcgaaa	atgaacaacg	gaagctctcg	agaaattgaa	atggtcataa	120
cttttcacac	tgagggtccga	ttcaagctta	taatataattg	atatgctcga	aattaaacat	180
cggaagctct	cgagatatctc	aaatgggtcat	aacttttcac	atgaatgtcc	gattcggggcg	240
cataatatgt	cgagaagctc	gaaattgaac	aacggaagct	cttgagaaat	tcaaatggctc	300
ataacttttc	acacgggatgt	ccgattcagg	cttataatat	atcgatacgc	tcgaaattga	360

acatcagaaa ctctcgcgaa atttaaattgg tcataacttt

400

<210> 12051
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12051

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atcatntgaa tttctcgaga gggtccgatg ttttaatttcg agcgtatcaa tattttataa 120
ccgtgaatcg gacctcagtg tgaaaagtta tgaccatttg aatttgacga gagcttccgt 180
tgttcaatat cgaatatcac tatatgtgat gcgcctaaat tggacattcg agttgaatgt 240
tatgaccatt tggattttctc aagagattct gttgttcaaa ttcgagcgtc tcgagatctt 300
atgtgatcga atcggacatt cgtgtgaaaa gctatgacca tttgaatttc tcaagagctt 360
gctgtgggtca atttcgagcc tctcgacata ttatgc 396

<210> 12052
<211> 377
<212> DNA
<213> Glycine max

<400> 12052

agcttggttg tatctaatat gcttcgggga gattctgtga atgatgcgaa acgagccaaa 60
atatgcaatg tgacagattc acaagaaaga tgtcgcgcga taaactcaag attttagggg 120
tgagcgtgag tgtactacta tagcatttca cttaaccatg tttcgagtaa ctcgcttattc 180
gagatgatgc gctatgcgat agagacattt ggctttacgc tgtctctctt gcactgcaac 240
atgggcccac ttaaaattct ttggcttagc aagccatccg ctaagcggtg gcgagagacg 300
attggcttct caacatgctc gcttagcgag ccgttctacc gagcccaagc ccaacatttg 360
agattcaaata atataga 377

<210> 12053
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12053

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agtcttgtga gacacaactc agagctcaac ttctctccct ttntcttccct tcaatatcgt 120
gtccccact ctttctttct ctccctcttt cttttcctca attgaagcat cctctccaag 180
cttcttatgc aaggctcatc ttggcggtgaa gctacttctt catggctatt cctaacggat 240
ggcgctcctc tccctatctt ctttgcttca gtgatctcca ttggggaaat accattaagg 300
accccttgag ctcaagatca gcctctatca gaacagcttt atcag 345

<210> 12054
<211> 342
<212> DNA
<213> Glycine max

<400> 12054

agctttcttg tgacgtacta atgccgagtt cagctgcgta tgtagattca catgtcgcgcat 60
caaggaaatt aacagcgatt aacacaatac attgtagagg caacgcaatg ttcaattcga 120
ttcactcaaa acgcgtgtgg gaaacatccg taacattgag gttaaccgct tatactattc 180
agtagcgact ctgacggcga cacacattta ccttagtaat acagacgcga gtttctcgat 240
agacctaacc aacaaccact aggcacttgc gatgaactta tatctgattt catactcaca 300
aatgacatcg tacacatgaa ttcatactca cttatactta ct 342

<210> 12055
<211> 488
<212> DNA
<213> Glycine max

<400> 12055

cgaagagcac cgtttgtcat ggcggtgca ccatctgata ctgaatctct tgatatatga 60
acgttccctt cacaaggtta ctctgactat ctcgataacc gaatacacgc tctctattcc 120
tactttttca cgaatctctt tgccaccttc gatctccgct tcatatcaac gttagcgctcg 180
gaatgtctcc ctctttcgat acctacctcc tcaactatacg ctgcctcgct agttcatgta 240
tcgattcact ttcttagatg attgttcgtg ctgaatatca tttgtgatta gattctctgc 300
tctgttctat tggaccttgc acaatgaaga ctatagggtt ggcgggcgca cctgagagag 360

<223> unsure at all n locations
<400> 12058

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ataacgtact agcctataat ataaccaatt caacaagtgt taacaattca gccggaggta 120
cgcaatacac ttgtattgct atggatagcg tccaagagaa gcatatgatg tctctgagat 180
tccaagcgcg cagtagcttg ttccaagata gtgtgatcga catctaatat atttcacacc 240
tcacgaactc ctcgcattga aacatataag atatgttgtg atcttcagtt ctcaaacaga 300
gagatcttcc aagaccttta tctatgagca ctattgtaca cgagtaatct atattcaata 360
gacatttaga atgctctgac aattggcatt ggaggcgggt ttgcctcaat gtgtcttana 420
tatacttcat ctaaccacg tag 443

<210> 12059
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12059

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tgttcaagtt ggttgcaaga agaagaatta gaagacttgg attatttgga taagaatntg 120
atgggagtcg aattcatttt tgacaagtat taatttgact atggatcttg atcctaattc 180
ttttcattgt tcaattctaa atatgtatat ggagatctat aatacattcc tctaattcta 240
tatacaagag aagttctaag gggggagata tataagttga aatggctcat gtacgttggtg 300
tcttaagatt ctgngctgga tatagtatct agtttacttg attat 345

<210> 12060
<211> 194
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12060

agcttggtat gaggaagtgt tgaagggtga aacttctgc ttttattggt gaccacagag 60
tggtacctgg agatatgtcg cggnggtaag gagaccttat ggacgtcagg tgggtgtgcta 120
ttgcccanaa ccaagcttga ccaatctcga cccaaccgg gcatagtcgg tcagtgagaa 180

cctgtgatgt acct

194

<210> 12061
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12061

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aagttattgc gaattgcatt ntctaccacc ttttgttttc cattaccagc atctcgatat 120
attacgggac tcaatcggac atccgagttg acagggtatta ttggtttgca tttttacaag 180
cttccatttt caatttcgag cacctcgata tattacggga ctcaatcgaa gatccgagtc 240
aaaacttatt gtcgttngaa tttgctcaca gcttctgtat tcaatttcaa gcgtctcgaa 300
atagtaagag aactcatcgg atatccgagt taaaagttat tgtcatttga atntgctcag 360
agcatcttgt cataccctaa tttcgtccgg ggatctttgc ttgatgacat gcgacctttc 420
tttggcc 427

<210> 12062
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12062

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cacacatcca ctaagtcgta caagtgttga gctgtcttct angatgctct tttgactagc 120
tgttgnnttg tctaattaag gacacatctt agttntctgt tttgcttttt taccaaattg 180
tctttgctgt catttccctt ttaatcttat ccttagttat aggcacanag agtggctata 240
tatattcttt cctctgtaan tatacgacta tgaatgaaat gtgttttcat acattccggt 300
atagtctgtg tcgtttctct ctttttcctc ccttatatcc aatcttattt gacatttgta 360
atgtattcca gcaattccag cgagtgtgtc ttctgctctt tnnghaaaata cctgaaact 419

<210> 12063
<211> 359

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12063

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attgtccaag cttcaagccc aaagggctcc agcgtgaggg ggtatactag aaatataata 120
tagaattgaa tanttttttca cccaatagct taagcttatg agattggagg ttcttgacag 180
ataccatgta gacagaacaa aaaattcaaa ttgatcatat tctaagactg gaanagctgg 240
aaagggaaaa ggataagggg aagctgcat ggtgtgaaca atngtgattg gatggctgtg 300
tactcccatc aacaagagat agactcatca aagttacact agtggttaca gcccacacc 359

<210> 12064
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12064

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aggctcgtca aacccaagat ttgcacttag tgagtctcac tagttcacia aacccaaggc 120
ccgtccttgg taagcctcga cgcacctcta cacgctnttc aaaacctagg gcaaacacgt 180
ccctgggtgca aggctcgtta aacccaaggc tcacccttgg taagcccttc ttttgctaag 240
ttccatcttt acaagatctc aaggtacaca aggtcaaccc ttgacaattt ttcttaccac 300
taactgttat atgtgcaaga attcatgttt gcaagaatat caaaaaccta agggccgccc 360
ttagtactaa aatctcaagg tctacccttg atacacactc ttacaaaacc caaggtaccc 420
ttttggtccg cttacttgca acaacaa 447

<210> 12065
<211> 232
<212> DNA
<213> Glycine max

<400> 12065

atgtgataga gcctaagtca caatgtgggtg gaatgcacct tctctcaata gcaacttggg 60
cgaagccgaa ctgatccat gagaggcaga accaagagta gagccacag aaaaggctaa 120

gcccgaatca aataaacatt aaaatatagt aactaggaag tgatcctagg tcgttttcca 180
acgagcaatg ataaaccaga agttcataat atacttgcag taacagtaaa aa 232

<210> 12066
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12066

agcttggtata catgatttng aattttatga tcctaatagc tccgtgtttg ggaaacataa 60
aattcctctt caatgtatcc atttacgaaa acactnttga catccatttg gtatagtttg 120
aaatccataa cacaagcata agcaaataga aatcttacia cctctaattct agctaccggt 180
gcatagggtt aaccaaagtc tatatgctct tgttgagtat agcccttggc tactagcctt 240
gctttattcc taatgatcaa accatgttca tccgatttat ttttaaacac ccatntagt 300
ctaattggtg gcatactttt agaataagat acccaattcc atacatcatt ccttttaaat 360
tggttcaact cctcatacat ggacattatc caaaactcat ctttaagtgc cttctctata 420
gacatgggtt ctacttgaga cac 443

<210> 12067
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12067

gttgattaat ggtgatctag attctatgga ctcaaanag aagtaattaa gtcataagag 60
tttanagtgg agggcacttt cataaatgac tatataacta gtttaaaaat agaatttttag 120
tttaattagt gggtgactag cttaaagtgtc taattatatg atgtagaata attaacataa 180
gttagagttg taacaccctg aaaaattaca actcagacta acaaaggaaa ctctgtgttg 240
tgtcattggt gcattgtatng aattaatttc attaattata tggttttaat cagataattt 300
catgttgtgt gtgtgtatgc atgtgactga tttagtaaag cttgatagag aaataanaac 360
tatctaacct 370

<210> 12068
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12068

agcTntacat ttaatatTTg attcggggTt agccttgata ggtgtTgcac aaaatatgtt 60
 tggtattTgt gtgtatggTc aattagtagt ctaagccttt aatgaagaac ctaagtcatt 120
 ttgcaagtat gattgtaata ttaagtagcga ttgtgtgtat ggtaaattTg gccttgacat 180
 gattcaaaag tggatcctTg tataagattt gcataaacta tntagataag gtatctaaga 240
 gaactTgtan caataagtta aaaacatctt catagctctt tttttcattt ntaaataatn 300
 tgactcattc aatggTgtac tattatacag agtTngacag tgattntcac cataataatt 360
 caaatattga ttttcatagc aacaatacac tgcacatgaa catctcatcc ncttcatgt 420
 catgtacaag tgatgaaact ctcatgcctt atcact 456

<210> 12069
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12069

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 aagccgaggc gcttccgtaa cgtttccgtg agtgatttcg cgaaggTTTT cgactgttct 120
 tcgacgttct tcattcgTtc ttcagtcttc accgggtaag tacttcaaac caagctttta 180
 attcattcta tgtaccCGtg gtggTccaca tttggTttca tgtatnttta ttctcgTtgt 240
 catttacttt ttataccccc ttttgacgtg cttaagccat ttatttaagt catttctcgc 300
 ttaatctaac aataaaaataa a 321

<210> 12070
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12070

agctntgtgt ggagcttcta tggatgaatga agaagaagaa agctacgtga gagagggaga 60
 gaaaaggctt ctgaatttct ttcttttggc tgagttagga gagagaacag ctttttggtt 120
 ttaaataaaa aggggttttct ctttttctat tattttatta taaactatgc cacatgtctc 180
 catttgagtg gagcaaaaag ggcccacttt ccccttttga ctgtgaccca tactcagcca 240
 caaaagttag aaaaatctga cctttgaaac gctaaaatcc tgctcgggtt tgcgtgctgt 300
 ttctcaggtt tcagttcctc gcgttttctc gcgtccgtcg gggccagttt tcgaaaagtaa 360
 ccaatatata tatc 374

<210> 12071
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12071

atgataacca aagatgatga caaaggatgat gacaaaaaac tcanagatca atcagagaaac 60
 aactcaagtg aatcaagaac aattcaagag ttcaagaaaa gaatcaagaa gaattcaaga 120
 ctcaagaaga aatttaagag tcaagaatca agattcaagg ttcaagatct caaaaaatcaa 180
 gatcaagatt caagattcaa gaatcaagag aaggcttaat caagataagt ataaaaagtt 240
 tttctccaaa attgagtagc acatgatttt tctcacaaca tgtttaccaa agagttttta 300
 ctctctggta atcgattacc agattgttgt aatcgattac cagtagcana attgttttga 360
 anaagttttc aaattgaatt tacaacgttc caattaattt canaaaactg taatcgatta 420
 caatgttntg gtaatcaatt acc 443

<210> 12072
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12072

agctttattc tcttaatcca aacctttgca aactttttta gagattcttt taacatatata 60
 aggtctattg taaatcgttt ctcttgactt cttgatcttg acttgaatca atgttgaata 120
 gctctaattc tttggcatca tcaaaatctt aatacagcat atgcacttac aaattcaaca 180

caaacttaga acataatgtg ataattatta tgactaaaaa tgactctaag acaacatgaa 240
 tgaagtgatt acacttagat tattgtgttt tcttttctaa tctatatttt gcaagaatat 300
 tttgactgan aacatgattc aagagtagat ctatattatt gtgactgaat atttctatgt 360
 tntctaattt caagggtag cacaagaata tcttgattga aaaatgatag aaccctaaat 420
 caacatataa acatg 435

<210> 12073
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12073

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 ccgagcgct tgcgtaactc gtcgagacg tttccataag caaatccatg aagatctttt 120
 gccatccttc gttcgctctt cgatgctctt tgggtcttcaa ccggtgaagt tccgaaatcg 180
 aacttttcaa ttcattctat gtacccttgg tgggtcccccac ttgtttcccg tacttttatt 240
 atcatttcat ttaccttccg taccoccttt tgacgtgctn tagtcattta tataagtcat 300
 tttctcgct aataaagaaa taaaataaat tttcacgcat catttgaatt gaacatctgt 360
 aatttctgta aa 372

<210> 12074
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12074

agcttgtcat gaaagataag aanatttata gataagagag agtgaaaagt atgactattt 60
 gaaacagatg aaagagatat gaaatgagaa aatagaacat aatagtgtag taaaatattt 120
 cgtttttaaa aatcatttgt acaattgcaa tcttattcat gtgaacttgt attaaataat 180
 attctagttt gatatatata tatatattcc atttgatttt gattttgcta tnttttaaaa 240
 aaatttaaca ggcataatta attatggaga gatagaatcg aatatcatta gatattgggt 300
 accagcatat tattcaattg tatttacttt cgggtgtacc cttgtatttg ttatcagcac 360

gttcgatatt gttggctctt attggcgacc taatgctata ttgag

405

<210> 12075
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12075

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gtaactcact ctatgaatct ttcactcatc ccattaatat caaagatttc ttctagataa 120
acttatctag agcaatgtgt gtcacatgca atttaagttc ataaatggtg cagatcattt 180
ctatgttgct agtgtacgaa aaaacgtggt cacatacaca catggcgaaa taaaaggata 240
tattttggat ttaaattata ttataatcaa atgacatatt aaaaggtgta cctattgatg 300
agttcttgaa gcataaaaat tcttcaatag tgtacagact ctacgtgtat ccacatcgat 360
actgacctct attcgtcaac aactttgaca tgtaaaaaat aagaatagag aagtg 415

<210> 12076
<211> 259
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12076

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tccgctaagc gcaacactca tgggctaagt gagaggaaca ctctagaaga agatgagttg 120
tatagggtcg ctaagcacac cgcttcatct cactaagcgc accacttaag tccatccgct 180
aagcgagaaa tgcacgcgct atgccataat cactaatgtg tgctaagcgg aacataattg 240
cgctaagcac acaagcacg 259

<210> 12077
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12077

acccggcgta aagaggaact atgataagag ctacgtggaa gtccgtgagc ctcaagtgagg 60

tgggcaacag gggatggtgg gtttatacgt gatttgtgga tgtggagaac tgttntgcac 120
 tatcgcccga ccgccaccta gtaccacatg tgatgggtac ccataatcc tacaagcttg 180
 aaatgaggaa gtgtggaaag gtgagacttc ctactcttat tcgctgacca cagagtggta 240
 cctggagata tgtcgcgng gtttaagagac cttcgtgacg tcaggtggtg tgctattgcc 300
 canaaccaag cttgaccaat cccgaccaa cccgggcata gtcagtcagt gagaacctgt 360
 gatgtaccta aacaggcgag cttctggcag tcaaccga 398

<210> 12078
 <211> 332
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12078

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 gatgcattgt tctgttatcc aggatccaca agagtcccta cttcgaggac cttcttctca 120
 cgtctctttt cctccatcac atgcactnta caacacacat tgtggcttgg tggatctttc 180
 gcctcatgga acatatcaaa gctgatcttc tgatcttcta tgcccatctg caatatcttc 240
 ttccctatgt ccaccatgga acttgcagca gacatgaatg ggcggccaag aatgagagga 300
 atgtcagcat cctcttctat atctatgaca at 332

<210> 12079
 <211> 406
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12079

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 gaanaggctt ctgaatttct ttcttttggc tgagtgagga gagagaacag ctntttggtt 120
 ttaaataaaa agggttttct cttattctat tattttatta taaactatgc cacatgtctc 180
 catttgagtg gagcaciaag ggcccacttt ccccttttga ctgtgaccca tactcagcca 240
 caaaagtgag aaaaatctga cttttgaaac gctaaaatcc tgccctcggtt tgcgtgctgt 300
 ttctcaagtt tcagttcttc gcgtttctct gcgtccgtcg gtgccagttt tcgaaagtac 360

caatatatat atcaaaacgc tcagaataac accccgagcg tggttc

406

<210> 12080
<211> 561
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12080

cgccgcccctt gatcccntta ggaaaagcgc ttcgnannac cccnccnct tngcaaagna 60
ccgngcgggc anagctgtct gcaataacca acatttatga ctatgtttga ctacaactca 120
gagatcaatc ggggagcatt tcgtgaatca agaacaatac ttcatgttca cgaatagaat 180
caagagtga tcaagactca tgagaaactc gtcgactccta gcatcaagac ataagggttca 240
ggatctcctt catcgagatc aagattctag attcaagaat caagagatgg cttaatcacg 300
atcgggtctaa caagtttgct tccaagatcg tgttgacat gatctttctc attacatgtt 360
taccaaagag tttttactct ctggtaattc gataccagag tgttgatgct gataccatga 420
tcataatttg tttgaatagt tttatactga gtgtacagcg ttgtattatt ttaaaaacgt 480
gattcgagta ctatgtttgt taatcattac cgtcgctatg agtcgttatt caagtctcat 540
ggagtgtcga tgctttcctt t 561

<210> 12081
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12081

agcttggtgc aattcttcta gacttggagt tataacatgc agtcctcttg aacccttacc 60
tccactctt tcgtcatgcc gggactcang anaccaaca ggttttgcct tttcaatgta 120
ctctgaacaa aactcaatag cttctttggc aatatacctt tcaataatag atgcttcaag 180
acagtctaga ttctttgcat acccttttat gatcttcatg tatcactcaa ccaggatat 240
ccaccacaaa taaatgggac cacaacattt aatttcctc accagatgaa caattaagt 300
gtgaaccatg atgtcaaana acanaggagg ataatacatc tccaactgac aaaataaaat 360
agcagcctcg ttttcaactc atctaacttg agaggatcaa tgactntact acatat 416

<210> 12082
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12082

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 cttttataat aaactcaccn ctcacaattn tgtactgtgt gggttgatacc tgtgatgac 120
 gcgaaccttt gttcgtggga gcagaatgac aacagtagag tacgagaagt gagattcttt 180
 tgtcgagccg acgtgatgac gttgggttta ttttgggaga gagttgtgtt ttgttaatca 240
 actcctccgt agctgggttac ataattcttt tttctaattg aggatgtaaa tcacagaatt 300
 aggtatatgt atgaacanat tcactttcca ttatgtgaat gatgtgtact ggagtactat 360
 gcctatatat atatgtat 378

<210> 12083
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12083

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 gcaggatcaa gtggagtcac agccattgaa caacaacaac agcaacagca gcagcagcag 120
 caacaacaac aacaacaaca acaacaaca caacatcaac agcaacaatc agagtcttgt 180
 ggttacaact ttcagctcca aaggcaattg ggagccttca tttcaacaca tgttgacact 240
 gaccacatca atttccaaac caacaacaac aactcctcag aagatcttgg cctatccctc 300
 cattggcttc aagaccaccc tggccttatt cagtggcaat cacaacaaga aggtgcaaatt 360
 caaacacctn cttcagatga acaccaaadc cagcaaacc cttttgccag aatcaaccgc 420
 agtggggttg agaaccatta tcaaagaagt gtgacttgga acaag 465

<210> 12084
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12084

agagaatatc atctctctng aaaagcaa at cacctgatct gcattcttta ttgcactcaa 60
 atattcacca ctnggtgaaa catcagccac agaattcaac aaattctctc tgggtatcct 120
 cacattatca aacctgaaga cacatgtgaa taatttctgc gtttactctt ttatataaaa 180
 tntcattttc aggtgcaact tgtttgaaaa atgtatatat taccagatac ggccattatc 240
 aactccattt aaaccaattn tgtgaccaca atcagctatt cggatgtttg gacatatgtt 300
 tccatctgaa tccctgattt gngcaataaa tgcatgcacc ccttgattgc tccatttata 360
 tagagctgtg aaaagactat agtgtgggtt gcatgctgaa taaaagaaca agttaatata 420
 agggtaatat atacaaagtt ggagccagtg aaaaatgtat catg 464

<210> 12085
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12085

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 tgcttgggac gcgtgactgg tctagttcg caagattcca acccttcgta taccagaaga 120
 agaccaaacy aagttgtgag tttttctatc aatggcggca tagattgact aatgcagcca 180
 gaatagctgc ataattgtaca ttggaaggga ggataggaca tatttagcta aacaaagtca 240
 tccagcccta ttcaaaaagtt tccctttcca tgaagctagc cttctatgaa ttntatccaa 300
 gataaaatcc aaagattgat ggtgttgtct cccttgcacc aaggaaaacc ctagatagcg 360
 gccaatgttg gaaacactcg cgatgccaca aacattcttg aatatattct tcatgcgggt 420
 ngggattccc ttggagctca tcatcgtaga tttat 455

<210> 12086
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12086

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 atgttcttct gcagatcacc atacagatct ctgtccttct ttgcagcaat ctggagtcaa 120
 tgagcaactt gaagctcatg ctgcaaacad ttataataga cccctcagc aacaaaacca 180
 acaacaagag aataattatg atctttcaag caatagatac aattcagggtt ggagaaatca 240
 tccaaatctg agatgggcaa gtctccaca acaacaaca cctgtcccta ttttccaaaa 300
 tgctgctggt ccaagcaagc catatgttcc tntccaata cattagcagc aatagcagca 360
 gtcacaaca agacaacaag caact 385

<210> 12087
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12087

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 tgtgatagga tatgaaatct gatttagagg aaactgaata tcctctaatt atgtgtaatc 120
 aatactactt gtctgtagaa acacctgggc atttattttt gccttgaaaa aaagctactt 180
 caatatggga aaaatctttt tttggggggg aacatcaatg accaaacctt gtacctntc 240
 tgtagacaag ttaaaaacct acagttcagc aacatcactt ttctttcaca gctataatgg 300
 gaaaggatat tagcactctt tactatctag caataccaga gcatggccac acacctttgg 360
 aggctaattg tatcagaaac ttttaaggaa naatcact 398

<210> 12088
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12088

atattttata ttattagtac ttgattttc agccttgatg ttgggtata ttattatggt 60
 atttgaaca tttactattt ccctatttgc atggtatggt tgaacaaata ttaagtatgt 120
 tatttgacta tatgggtttt atagataatc tatttatgat tgctgcttca tgattcttgc 180
 ttcattgagt ggttggttagt ttctcaatga atgttgatg gatgtttagt tctatttgat 240

<213> Glycine max

<223> unsure at all n locations

<400> 12091

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agagtttaag ataataacaa gatggagaag tattggtaga aatggagagg taaaatattt 120
ataacacttt gaaaccctt caaaaccctt ttgacttctc atcattagtg accacctcga 180
gagttacaaa ctctgcaatg tegtcattha gggtttttct ccaattgaag caacatgtat 240
catttaagac caciaacggt atgacacacg gtgtgatcaa gatatgccta gactatcgtg 300
tcttagatcg aaaggtcgtg attctttntg tctaanaagt cattaccatg tcacgtgcat 360
cataatgttt gtctaagata nagtcgacca tccaattcat tggttatcta tcgagatana 420
tacaactcag ccatttaaatt agatgggatt cattt 455

<210> 12092

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12092

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cttgtgatga ataataatcct tgagaaagca agttagcgtt gtctgctcta tgtagctgac 120
ctacctaatg ggatatgact ttgttgttgt gtcagttaga aaacaattta tttttctggt 180
acaagtgggt tgtgattcta ttgttttgca ggggaaaaat gtcagagtag aactcttgga 240
gacagcacta ttacttccga gcacgttttag caaaattctg gatgttgtaa acagtgacaa 300
cttgtcaagg gcaattgagt attattccaa tnttgtcagg gatgctcaca ttgaaaagga 360
tgtaaagcan aactagaatt cttattcatt gtgtaattct catta 405

<210> 12093

<211> 401

<212> DNA

<213> Glycine max

<400> 12093

agctttaacc tcacgtcca tcacagctct tagatttggg agccaatcca atccttgtgt 60

cagaatatac tccctatcct gcgtataatg cttgcttacc acatatctac tcatatttna 420
tagtataccta accattctat gttaatcaac tacatattat atgatattct caaactcata 480
tactatatgg aaaccttcgc attcattcct ttcataatta aacattatcc aagacttctt 540
ctgctgct 548

<210> 12096
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12096

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acgaagccca aatgcgtgct tagcacgaag ttagcgtgaa tagtaagcta ctttaggcct 120
ataacaggaa ttagaagcaa aaggaaaaga taccactctg gagactcaag gttctctaata 180
gaatacatac taagtctgag catctctaata aggggaaagt ctctatatat gtccattgtc 240
cccttctcct tctctatcca tccaccttct tctatccaca ttaaccctta aattgaaagc 300
ctctcatgac aatgagaggc ttaatccct tagttaggga ctgacagggtc taaaaagtc 360
taagatgtat tatatgtttc atatctatca actgcaacat gt 402

<210> 12097
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12097

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ntgcttcaag attaatacaa gattgtttca acaacaaag ccttgattca agatttcttc 120
aagatcaagc cttgcctcac aatgaaaggt ttcaagtcac tcaaggcaca tgtaatcgat 180
taccaatggt ttgaaagtgt gtaatcgatt acacatcata tgtaatcgna taccagagac 240
tctgaacgtt gggaattcaa attntaaatg aagggtcaca actgttcaag aaaaacaact 300
gtgtaatcga ttactaat tctgtaatcg attaccanag aggatntca aggaatatcg 360
ccaacagtca catcttatca tttgaatttt gaatggccat caaaagccta tatatatgtg 420

tga

423

<210> 12098
 <211> 461
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12098

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 actccaagta ggcctctgga tcattctttc ctttaaattgg aggaatgttg agtttaatac 120
 catcaattcg gttttgtcta agaacacccat cattccctct tctcctcctt tcttcttcat 180
 tatgatctct attctccatt tgatccaacc tctcatggag cgcacatct cgttgcttca 240
 ttaacctctc caaatgttgc atcanagctt gcatttggaa ttgcgaaagc cccactccat 300
 cattatngat agtacctgac atctcanaca aacaaatcaa acgtaacaag acaattagta 360
 gtgctgggtg aataccctca cccactcagt gtatcacaca attatggctt ttctctaattg 420
 aaacactctt ngctttttacc actctaattct ccttgagtct t 461

<210> 12099
 <211> 370
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12099

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 gttccgagta cattggattt ggtacgacca tgccctcctg atttccagct gggaaattgg 120
 cgagtggagg aacgccccga catttacgca gcgagcataa tgtaaaccctt tacgggtttta 180
 aaagctctat agttgggcct aggcntnaga gttnttcttt tggttaaggc tgtgtgtatt 240
 ttgttaggtt taatacaagg atctttcttc atttgttctt acgtctctac ccattctcat 300
 ccattngcat gtttacttct ttatttctga aacggcagat ccgatgacga gtcccccgaa 360
 ggtctaatac 370

<210> 12100
 <211> 194
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12100

accttctact gaccctgagc acccngaate ttcttcttac cgataggggt tttagcctcc 60
caatgatttt cgtaccgatt tattcattca ctatttgata attaatccct actttttattt 120
tctattgatt tctatttcac aatgaacttt taaaaatata atatacaatc ttaactgctc 180
ttattatcaa atcc 194

<210> 12101

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12101

agcttgggca atctttattg tgcangccaa tatttaggggt taaggcccta taaattctaa 60
tatcttcata ccctacttgt aacacaagat acaaagaaac aaaatgcatg taaatcacia 120
atttcgtctt aaactattac tctgtccct aaataaattc taaagtaata acactattca 180
agtaatccct agagtattga atattcatca ctgtagtccc taagttgatg tattggttta 240
atgtttaagg aatattttga ggggtattgt aatattaaag ggaaaacttt gttaatttct 300
aataattata ggactactta agtagttcgt atactttaac gatattttac ttttaagttg 360
ggcgatcttc atcatacaag ataattgtga ggggttaagg aggccctata tattctaata 420
tctgcatacc ctac 434

<210> 12102

<211> 297

<212> DNA

<213> Glycine max

<400> 12102

accatccga cacttatgca gcttgatacc cactattcga cccctgcccc accatacctg 60
aactatacaa acacattagc acccttggtt gtgttccatt tttccaaatc tgagagtcac 120
cgccacgtc ggtgcactat cgtgtgtgga gaggcataac tttgatagca acagaatgaa 180
acttgatct tgattcatgt ggggttctca tatctaaact attatgggtg gtggagattg 240

tcatgtgtga ggaggcaaaa ctctgatata ggtgccaacg aactcacatc ttgacgt 297

<210> 12103
<211> 439
<212> DNA
<213> Glycine max

<400> 12103

agcttatgtg aacgttctgt ataatgtata aagccacaaa agaaggcaac tacctgtctc 60
aagagatcca ttgtactgtt aaacgttaaa acaaatatct gggagcttat ttgacccac 120
tttgaaaaac gatattgaaa tacaatgaac aactaagtac tgcatacaag aagtagcac 180
gtaaaactaca taattcaata atgggttacac tcgtaactat tgtgtcacat tagtttaaaa 240
caagtacaac tttagcaciaa cttactacgt tgactagga cattagattc cacaagcat 300
acagtcgagc aagcccagct gatctcctag gtcttggact aaacaaagcg ctgattccag 360
atggaaatgg aaataggaca ccatgaggga ggacaaatag aactaataag aagctcaaca 420
gagacagcga gtacatctg 439

<210> 12104
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12104

cgatacanac tccanattctc tntcaaagtg gacctcatct tataatatga tgatacaatt 60
aatcaaacac cctctgtctc gcaactgtaa cttccaatat gtaattctaaa ttgtatgact 120
ctttcaaata ctatagactc taccanattc aacattcttt atagttacat aacacacaaa 180
ctcagcatat tcttttagcgt agcgtgattc agcaaataga atatatacgt gccaaactcca 240
naacgcttgt gcagtttgta cacctggatt ntgcctttgc aacttgact tcttgatttc 300
caggtcctat ttcaccttcg ttctttcttg gcattccagt taaccctcgg aatattctac 360
tat 363

<210> 12105
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n. locations
 <400> 12105

agctntaggt gttgggttcag tgggagggat tatcacccga ggatacttca tgggaagact 60
 gggactagct tatatccaca tatcaccttg atgacaaagt gcatttggaa gacgtacgga 120
 atgctacgaa ggaggaacct caagcatgat taatggaaat gttacaacac ctgtgtacct 180
 taggaactac atctaattggc attgagagtt gagctgacaa tcttgtttgc cttatctttt 240
 tctgtctgcc atntccattg tccaattaat tctgttatga atttgttatt acaaaattac 300
 aaattctgct atttttaata ttatatatat ataggacca tgtaataaga cacaataatt 360
 gaaattacct agatatttcc atgcctctct tatttaggag gtcatgggcc tct 413

<210> 12106
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12106

tatcctgatg aggggtgttcc atatgttctc aagactgtat taatacatnt gctgcccag 60
 tntcatgggc ttgtaagtga agatcctcat aagcatctta aggagtttca tattgtttgt 120
 tccaccatga aacaccatga tgtctgttcc accatgaaac accatgatgt ccaggaagat 180
 cactatcttt tacaagctnt tctcattct ctggaggag tggtgaaaga tgggttgtac 240
 taccttgctc ccatgtcctt taccagctgg gatgaccttc agaagggtgtt cttggagaaa 300
 ttcttccttg catctatgac cattgccatc agaaaagaca tttcaagcat caagcaactt 360
 agtggagaaa gcttgatgaa tacttg 386

<210> 12107
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12107

agcttatatc acataattga caaactctta ataaactatg cttaagacca tcaacaagta 60
 aaacattttc tatggaggta gagggattca aacctatttt tccaactcca agaattntac 120

ctttgctggt gtctccatag gtcacatggt tactatTTTT ggaagaaata tgaataaact 180
 ntgatgcac tcccatcatg tgttcagagc aaccgctatc aatgtaccaa ttatgcttca 240
 aggagtcttt cattcatata atcatatntt gatttttggt cccanatannt cttgngttct 300
 taaatggttag ttatgactaa cgatcctttt ggaaccata ccatttttct aatgctacta 360
 ccattctttc taatataaca tattgatgca ctataacctt tcttaccaca atanaagcat 420
 g 421

<210> 12108
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12108

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 tgttcctaga attcagagac tacgagacct ccagataaaa ggagattaat gagagcaaatt 120
 ttattgattg ttatagctng catttctatt acaatgattg tccatttata ggacacaaatt 180
 acttattcta gttccttcta caagtcttac gatggaggct aacaataatg gatcttggaa 240
 atatcctaatt acaaagatat attccagcag acagaatatt ctaattgccc atgatatggt 300
 ccttttagtg ctgactcct tcttacctgc taacaattct tctgtgttgg gttgcctcaa 360
 cataacaatt gattgatcca tataaaacac ctt 393

<210> 12109
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12109

agctngcctc anagatgtcc aggaaggaca aggtgttcga aggaactagt tccgctcctg 60
 agtatgacag tcaccgcttt aggagcgccg tacaccagca gcgcttcgag gccatcaagg 120
 gatggtcatt tctccgggag cgacgcgtcc agctcaagga cgacgagtat acggatttcc 180
 aggaggagat aggtcaccgg tgggtggcct cactagttac ccncatggcc aagttcgatc 240
 cagaaatagt ccttgaattg tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300

tgaggctctg agtaaggcgt cagtggatcc catttgatgc agatgctatc ggccagcttc 360
 tgggatattc gttggtgctg ga 382

<210> 12110
 <211> 548
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12110

ccatcaaaga atgatgcaat cctatctcgc aagggcattg antntacata tgtacacaca 60
 tctctatatt ttctatgcat caaggaaga ccccggcgcg catgctgttg tcaactcgata 120
 ctatatatca tggcgcgcta cgaatatatc aaatgaccta catatgcatg ttactcctca 180
 ccagatgtag cctgtgtcta ctggtaacat tatcacgcac aaatgcattt catctctttc 240
 tagatcgttg atgatctcag aataactttg tcgagtcctt ttccaaaggg ctctgggtctt 300
 gatacccctg ggtttttggt taaaatcgac gactgcggag ttctccaacg acctgtacct 360
 cgtataccat tttgcgcgag caggatgtgt taacaaatct tgaatggtaa gtgtcattca 420
 actatagcta agcaacgcgt atgtatgaac gagtatgcc tcatatgaga gtgtacactg 480
 tgataattca cgccggcacg aagacaatac cgtaataata ctgntcgggc tgaactctat 540
 atggagcg 548

<210> 12111
 <211> 287
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12111

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 aatctgtacc tgctgcaaga gtctgtggtt tgtgtcctc tgctgaccac catacatacc 120
 ttngccctgt catgcagcat cctggagcaa ttgagcagcc ctaatctcat gctgcataca 180
 ttactatag acctcctcaa cctcagcagg caaatcaacc acagcagaac atttatgacc 240
 tcccatgcac atatacaacc ctggatggat gaatcaccct tatctca 287

<210> 12112

<211> 534
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12112

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aggggcgccg gtggagacgn ctganacctc tcaactacgga nnacctcccc ncnncnctn 60
ttttaantca tcgtgaacaa attaccacgt tttatattca gcacgatgag gtggttgagg 120
gctttacgcg cacacttctc atatcatcat tcagttatac ggaacgactc acagcatacc 180
tgtacgaatc gatagaacag ctccagtcta acagtacgct agagatggat tacacgcgat 240
gcggttgatg tggtgcaaac ctgacaactc taacatagct aaatacttcg atgataagac 300
atcatatgtt tgattgtcga gagaatgcag ggaagctatc tggagtgtat ctagtttggt 360
agataagtat tgtaatgtac tgtattgagt accgaatata gtaggagtgt ataatacagta 420
cgtggaagat atgctatagc tataattatt tacttcgctg actcctggca tttctactaa 480
tatgtacggt taatgttaat ggcgattaac atcatcgtag taacgaattg ttat 534

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<210> 12113
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 12113

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agcttgaagg tacgttatga tgagtgtagg agagggggaa gggggaacaa aattttgata 60
gagagaagat gaagaatgaa gtatgaactt tgaagactaa tttctcatca aagtttcaaa 120
atgcacacac aattgttctt tccctttttg tatttgataa catatggaaa ttgctctaatt 180
aactctaccc attttgcatt cctgttatct aacttgcatt gccctctaatt gtacttaagt 240
gattcatgat cactatgaat aacacactcc ttggaaacaa ggtaatgttc ctaagtttgg 300
aaggctctaa ctaaggcata caactcctta tcatatgtgg agtggttgag agtggcatca 360
tgaagtctct cactaaagta tgcaagaggg tgcccacctt gcaacaacat aggctccac 420
acctacac 428

```

<210> 12114
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12114

ctcacggact tgggctgggtt tcctacttat gctcttttagc tntgtgagcc aagttatccc 60
 ttgcatccta gagggcaacc acttttgata accgccgatg atgccattgc tacttcccct 120
 aagctcctta tctttccttt ccaactgtact ccacgcttta cggactctgt gaagtatttt 180
 tgcattggct tcaatgaaac ctgcgcgcac gaaaggcacg atgatctcct ccgatgaagg 240
 acctctcata gggtagccta gttgtcttat ggctagcata cgattataat taatacaaac 300
 cctcattccc atcaagggga catttgggaa tccttcacac gagcataaca cttctgccgc 360
 tcttctttcc accgagggaa ccagctaata gacactccta ccatacctgg taagagttct 420
 tcctaattag ctgttccctt gtcgacacac atg 453

<210> 12115
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12115

tggtacnctg agacctgaaa cctcanatc gggaatacag cgatactctn gatcctctga 60
 gtcactctga cgcattgcaac ttttttanct tttataaaag agaaggctcag aactatcacg 120
 atgactataa atgccttgaa ggggatctaa gtgctctcta attattacat attatgattt 180
 ggtggcatgc tcaccactga ttgtatcttt tgaaactcac cataactaat aaagcaaat 240
 ggatccctta tacacccgat gcttaatcag acggatacaa atacggagtg catgaacaga 300
 tgaaggccta cctttcagct gtattagatc atatggattc tattattata gccatgccac 360
 atgttcgaaa tcactaggat acctgctaac cagccgctcc attactgcta ggacacgata 420
 ttatgcttca ccccgatgac ttaagcttga ctaaacgcga aggtttaatg aaggatagct 480
 ccactctacc gtacgttgac tccc 504

<210> 12116
 <211> 537
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12116

cgcgacgtcc ttatgtactc ttggatngtc ctcgannatc gnacacngcg actnagctcc 60

tactgggtnc tctacctaa acctcagact ttcgaactca ctttaccgca ccaatgacgg 120

gccgtagagc caatcattct gcttttactg ctctttactt ccaccgatca caatgcagaa 180

taacttcatc tagtggcacg agcatccaat aagataaagg gatcattctt caccgtaccg 240

ctgctgtcca tcgacgtcac agtgcacg gagcacccac cacacctatt cctgcctctt 300

tggcatgtac cagagtagta aactgggtga tgtggacgat aaccgcttcg gctcattcct 360

agagttcttt cataattaat taagacctga gttctagacc gtaagtcctg atcaataaaa 420

cgtctgtgga cagcattggt gcgacttatg gctggctggt acatgcatta cgtctgcaca 480

catcctgcct tgtaaagcct tcaactggaaa tacaatccag agcgtcactg ggcggcg 537

<210> 12117

<211> 429

<212> DNA

<213> Glycine max

<400> 12117

agcttggtct tgattttttc taagttcttt aacaagctta taacaatata cttgtccttc 60

atttaactgt ctttgggctt ggcggccacg atcaacagag tactttcgac acctactata 120

tgttgatttg accaacgctg ttatcggtat gttacgacaa tccttcaata ccttatttat 180

acattctgag aggttcgtta tcatgtggcc atatcgacgt acttctctat cataagccat 240

ggtccatatt tcctttgaaa tgcgatcaat ccatgttgct atggctgcga ctcagctgac 300

gaaattcttc taaattctga tcaacaacat gcttgctagg agtgtagcct gcatgtaatt 360

acttagcaac aataatctga agtatacatg aaacttaaca taacatgacc atgatacatg 420

atatcttac 429

<210> 12118

<211> 288

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12118

ataatctaga gacanagaag gtgattatta gcagatacgt ggcgtttaac gagataggca 60

tgaaagattg gtcttcagag tctcaatatg agtcgatggc gatcgctgac aaccatgaag 120
aagattatga aaggctacta gatccaacac ctgatgagcc ataatcatcc aggaggccat 180
agaggaatcc tcaactctca gctagattgc aagattatgt catgtttaat gaccaagata 240
catctaatag agagagtatc aatattactt tatttgcaga ctgtgatc 288

<210> 12119
<211> 398
<212> DNA
<213> Glycine max

<400> 12119

gctatatttat tatttcagct tctatatgga ctcttcacg ctcccgggta tagggggccca 60
tgccacaact ctattagtag attattagag taacttatat agatccacaa taattttaagt 120
ggataatttc gaaagcccat tgcagttgtt caatgggttg agttagagtt ccgctatata 180
cattgccaga acgtaaatac aagtaatgag attggaaact tattccaaca taattccatg 240
ttaaactctct cttcttgtct cgaaatacta atatctaact aaactataga attactctac 300
ggatattgca gtcattatatt cctctaaata tatttacact attactatat tccaaaaaca 360
tataaattag aagagaaaact cataataaac ctaacccc 398

<210> 12120
<211> 582
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12120

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agcctactca agctggtaga gtnttccaac ctacacaaag gaanattctt ataagtagag 120
gtctgtaatt catggagaat gagagatgga gctagaatga tactgagaan atgtcaatag 180
atggcccttt gcaagatcaa gatgagctaa ttgatgatgt acccatgata ggcactacat 240
tgccctaaaa tatttatgaa agatgcaatg cagcagttct agaacctaca tgatattggg 300
atgcaaagga ggatcctaaa tgaagggata caatgcaaga taagcttgcc ataattgata 360
aatatcaaac ttgtgaactc gttgaaagac ctgaacacac aacagtcata agtgtgaagt 420

ggatgttttag aaccaaactg aatgcagatg gctcaatcta caaacacaaa gcatgggttag 480
 tattnacgcg tatgctcaaa ttctcggaga tatttctctg atactttgtc ccgtggcagg 540
 cggataccat ttgatattgt agtatccaac acataaggat cg 582

<210> 12121
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 12121

gctttcatta ttctatgtac cgtggggcca catgggtcaa gtattttatt tcgttcagga 60
 cttttatccc cttttgacgt gcttaaccat tttattaagt atttctccta acctaaaata 120
 cataaattcc accgatcggt cgaattgatt attcgaaact gtggtataat gaattccgac 180
 cgtcggtcgg ccgtaaccac gtggagatct aaagaggtaa atataattaa tctctaaaac 240
 gtctttatat aaaaagcgga aataatcgga cgtttctctt ggattctcat tctattgact 300
 gctataac 308

<210> 12122
 <211> 146
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12122

agctttttct gcttcttatt agagagggan ggtatgactt gtgttgcaat gccgcatggc 60
 aaaaaaccaa ctggaatggg aatgtgcacc gactacacta atctgacagg gctacccta 120
 gacgtgaccc tctcccagcg taatac 146

<210> 12123
 <211> 200
 <212> DNA
 <213> Glycine max

<400> 12123

ctgctgctgc tcctgatcg ccccgcaatt ttatattttt cgccgggggg tatctcccat 60
 acgagattcg atttctggaa ctcattagga gtcttttagat cgtatacgga aaaatgttat 120
 atgtattgta cgtatgtctt ataactttta gtgtttataa cctaactctgg aaactttttt 180

gaactgaatt ttgacgtatg

200

<210> 12124
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12124

agcttgatg agtttattgc atcanggaac aatttcactt tacaagtggg tcctaattgg 60
attcctaatt ntcaacttac ctatttggat gtgacatcat ggcagatagg tcccaacttt 120
ccatcgtgga ttcaatcaca aaacaaactt caatatattg gactgtctaa cacggagata 180
ttagattcta ttcccacttg gttctgggaa ccacactctc acgtattgca tttaaacttc 240
tctcataatc atatccatgg tgagcttggtg actacattac acaatccaat atctatccga 300
actgttgatc taagcacana tcacttatgt ggtaaattac cctatctctt caatgatgtg 360
tatgagttag acctctcaac caattcattc tctgaa 396

<210> 12125
<211> 319
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12125

acatacatct cttgagtctt tttctctgtc accacactnt cacctgctaa ccttctcttc 60
acttactctg actcagttac ctttcccagt attctatgat gttccattct tctctcacga 120
tcatectctc tcttatgcac agcatcagaa accacctttc tcacaccttc ttcagtaact 180
tccactgagg gcagttcctt cttgtgcaga gtctctgata tcaattcaga gagagccctg 240
tcttcatcac caggcctcag ttcgtccacc aaatagtcct tcacagaaac ccgcttgctc 300
tgttccacac ccatactac 319

<210> 12126
<211> 318
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12126

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gtatccttca tctagtanaa ctgacagcgt tacaacattt gttcgttttg tctctgatta 120
ttctcttatg attcgacgtt gttaacacac acatctttta gctttatata gacttttagag 180
ctctcatctg ttgagagatc ccaactaacc attggctaatt agctttgtcg cttgacataa 240
ggccactatt gtgcagagag agaattgtgaa gaccacaaac actttctgca gcatactctc 300
aaaagagaca atttgtca 318

<210> 12127

<211> 256

<212> DNA

<213> Glycine max

<400> 12127

atgagaagga agaaattcgg agcccatcct cgctcccccac aagtatataa catctattta 60
tacttgctca aactggatgt acacctacaa ttccaccgaa acgaaatatg actcctcgac 120
accaaat ttt accctacaca tggctcttag ctactatgg tgatttgcatt ttctctctgg 180
cacagaccaa ggttctcata aattctaaat gacattacag actacgggtga actcacatta 240
acctccaaat accact 256

<210> 12128

<211> 461

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12128

agcttcccga caaacactta aaggagaaga agattaatag gaagaaaaaa gttaanatta 60
acttacgaac cttacaatta ttagaatctt tctcatctaa ctactccaaa agttgactgc 120
ataacgtgat tttatcttag tggagaagtt ntatttattt tacctcccta tttcttctcc 180
tataggtgat tgtagaatgt acagaagctt atacaaattg aactattact ntgcttatcc 240
aataagatta gatntatata cttgctagat gcatagtcta ttaaaaagta atattacacg 300
aagttttgga ttattgaatn tagtctcgta gcagtttatt atttattata aattgaanat 360
cctttntgaa cactntgttt aatcggggtg actagttatt gactaaccat tacttgacct 420

attaatgtta gtatacatct catatcatct cactggatat a

461

<210> 12129
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12129

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ttaattctct cagagtctcc attgtgagat ntgaaagtga gtaatctcag gtttggcatc 120
tttctgaata ctttggagct taaatttata tgtgtaattt gagtcatatc taaccatatt 180
ccttcaactg cagcagttcc ctgacaaata ataattagaa ttaatgttta catcttttgt 240
aataatttgg catttttata ccaagagttt aggaatgcaa gtcaaagtat cattaacata 300
ctctattatt tgtcaataca tcatagatnt ccacaggatc ccacaatcta ctgcgttgcc 360
ctgganatnt aacagattct tcacgaacaa cttctctacc catttcttgt atcagatcgt 420
gcatatctat g 431

<210> 12130
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12130

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tactgttaac ttagcgtctt aatattagtg aaagataaaa naatatcctt aaaaaatccc 120
aaatttttaa ttttcaaata attaaaaata tacaaaacac ctctcctccg cactcacccc 180
caccgactcc acctttgagt ggcagaaatt cgtagctata tagtttgaga tcttgagcaa 240
cttgaagaag aatcaaggga ttttgcaa atagaacttg acgtaagaaa ttcagatatc 300
aaattcttaa tctagttatc agaaaagcat tattgttttt aatcaagaca ccatattcat 360
tataactnga caaacactac atattaatag aaagggccaa gacaatgaac 410

<210> 12131
<211> 414

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12131

tcgtcgtctg taatgctgac tcgagagaca aggacaactc cactctaaag catttacgcc 60
 atcagactca atgcttgagg ggttgtagat catccaanat gggaatccca ataataccga 120
 ctcaagagac aaggacaact catgcttaag catttatgcc attatgctta atgcttgagg 180
 ggttatacac cgtccaagat gaataccta gtaataatga ctacagagac aaggaagact 240
 cacccttaag cattctangc acaaggataa atgcttgatg ggttgtagac cgtccgagat 300
 gagtattctg gagatattgc ctctagttag gagatgactt agccctaaac atttatgcga 360
 caaggctgaa tgcttgaggg gtatacgcca tttaagatga atatcccaga aata 414

<210> 12132
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12132

agcttatgcg catatnttct tacaaacggt ctcttgacac agacattcta ntttaaccgaa 60
 aaaatgcacc catatacaat caaggcagct tcgttaccta gattatttac acgtacttcc 120
 aaggtgtatt tgttacttac atcacacaca tctccttggc taaattcaca tacatgcata 180
 ctcaaagcat tttgggggtac caaaaattgc acatgtgcac atcttggtat ttctaatacc 240
 tatacataca caaacttcat gatgaatctt gactatctac acaataaggt gctacatttc 300
 atgctctttt caagtttttg ctacctaag cgcgatgcaa attcaagtat atcttccttt 360
 gctgactaaa attgtattca aattaaaagg tatacatttt ttggaatgta tcttcttaca 420
 taacatgcga catatttatg tat 443

<210> 12133
 <211> 377
 <212> DNA
 <213> Glycine max
 <400> 12133

tgtttgagaa atgaaattga gaatgacgta cattggggagc aaaccctgac ctgccacaag 60

tatattatgg gactcaatct gacatccgag taagaagtta ttgtccgcta aattggctca 360
tacgttcaac a 371

<210> 12136
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12136

agcttgcan a tcttttttatt gaactgttat tcaaaaccaa gaggtgtgtc catgtagact 60
tcctcctcta agtccccatt taaaaaggca ttctttacgt caagttgttg taatcgtaa 120
tctaaatttg cagccaatga taagaggact ctaatgggtg taagttttgc aacaggagca 180
aaagtttctg agtaatcaat accatagggt tgggtgaagc ctttggaac tagcctggcc 240
ttgtacctct caacaaaccc atttgcggtta tacttgatag taaacaccca ttgcatccc 300
acggttggtt ttctctctgg taggtccacc actttccaag tctgattntt ttctagagct 360
ctcatctcct ccatgacagc ttcttccac ttaagaaccc ttagagcttc ctgtatatct 420
cttggtatct ctatanttgt cagttcacaa gtaaaagctc ta 462

<210> 12137
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12137

acatattgag tacatgccat ccatatattt tgttgattaa cattaccaat tntgactccc 60
anatttaatg atggaagctt gcttgtggag cttctatgga ggctggatct ttgagcttca 120
atggggctct ttaatgggtga ttntccacta tggagatgca gcggaagaca aagganaaga 180
ggtgagagga ggtgccatcc ttangattgc atcatcaaat tctatatttg actgctagaa 240
ccagaaaaga tacattnttc tcttatctc ttatgttgct tcgtattaaa ttgcaagatg 300
tttctatata ttggctcctaa ttnttaatac tcgctcatgc atgttgatta ttttgagaac 360
attangttnt ttataatnta tgaatgatcc ttattgaagg actgctgtct gttagaggtc 420
atatgtaaat cactgtccta gttntataat ttataatact 460

<210> 12138
 <211> 268
 <212> DNA
 <213> Glycine max

<400> 12138

aatatacctc aaactacatt tattgattaa cctttaatat tgttaaatac cttattatat 60
 aattatattt ttacgtaat gtttatatat ataatatatt catttatatt tcaatgcaat 120
 aagtataaat attaattacc aatgtaggct tcaatatatt tattataaaa tttaattcca 180
 cttattaata aaaataaact atatgagtat ttgggctgaa tctgattctt taaatgaacg 240
 aagctattta catattaagc ttcaaagc 268

<210> 12139
 <211> 536
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12139

cttgctgcat cttgaagcca catctattan gccgcactat agantactca agctcggtag 60
 atgtangntc aactagagac tcacaagatg tgctcgtaaa tatttagatt acttgaacaa 120
 tggctgcacc atttgtggtg caccatgagg ttacactaa caactccata ttataacacc 180
 taatgaacaa tcatttgctt cgatctctct tgtattatca gagaacatat ctggtatata 240
 taatattgta tattattcat ctctatgcca aggaccgcat gcgatttcta accaagattt 300
 gtcatgagag atgatataac aatatctcgc tattgtacac attctatcaa tatttattat 360
 actcttcgtc tccctttctc gaatatcaca ttaactatca tatatatttg ccttttctct 420
 cgttcttaag tgtagatata tctgaggatc aatataatta tccgaccttt attttgggta 480
 acgctcttgc ctcagtcac tttatcttat atgagttggt atattacaac tcaact 536

<210> 12140
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12140

agcttactaa tctggttttaa atcctttccc ataaataaat taaattcaaa tctagataag 60
 ataagataag atctagatta aataatatct agatgagaaa ttcaaatacta gataagataa 120
 gatcagatct agattaaata atatctagat gagaaattca aatctagata agataagata 180
 agatctagat taagtaatat ctagatgaga aattcacatc tagataagat aagatctaga 240
 ttaaataatg tctagatgag atcaaatacta aataatatct agatgagata aagatcagat 300
 aagatctaata tntgtagaat aaaatagtct gccctcttca agtccaagcc caattctgga 360
 ttcataccca tgccccgattc tgga 384

<210> 12141
 <211> 320
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12141

atgaagtgtt atcaagcatt cggaccacct tcacctctaa tatggatgcg gtagcacaat 60
 gtgtctttgc actcaanaat tgcttccccca ccagttctac gacattggtg aactcctacc 120
 atacaccaca tgacaaaaac ccaaaacact tcctagaatt ggatgtctca cattntccag 180
 tgatgaccct tanggatgga tcttcaagat attccagttc tttgagtatc acgttacacc 240
 taacgaagaa tgaattaatg tggagtcttt ctacctcaat ggagctgcat tggtttagta 300
 tcaatggatg tataaaaaatg 320

<210> 12142
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12142

agcttttttat tatcagtaga tgaagatgaa tctgtggcca cctcatggac tcctctaaga 60
 acaatatcat cattttcttgc actgaatttg tgggagccat cttctcaatc aaatttctag 120
 cctcaacacg gtcatatcac caaaagcttc accattggca gcgtcagtea tactcctctc 180
 catgttgcta agtccctcat agaaatattg aagaaggagt tgctcagaaa tctggtggtg 240
 aggacaactt gcacacaatt tcttgaatct ttcccagtag ttatacaagc tntctccact 300

aagttgcctg atgacctaaa tgtcttttct gatggtagtg gtcctagatg caggggaagaa 360
tntctccaag aacacctctt taaggttatc cagctganta tggacct 407

<210> 12143
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12143

cgcacatcgt tcacgtctat gatatccaat cgacaagggt tgaagtagag gagaccttca 60
atcctataac gcaacgtggc ggacaaaagt gggctgttaa cttgaatggc cattattgtc 120
aatgcgaana gtattttgcg cttcactatc catgttcaca cattattgca gcttgtgggt 180
acgtgagtat gaactactac caatatatat atatatat atgttggtta cacaaatgag 240
cacatcttga aagcttactc cgcacaatgg tggcatcttg ngaatgaagc ggcaattcct 300
ccttctgatg gcgcatggac acttatcccc gatccaacta caattcatgc ganagggttg 360
ccaaaatcaa caaggataag gaatgagatg gattggctcg aaccatctga gcaccgac 418

<210> 12144
<211> 310
<212> DNA
<213> Glycine max

<400> 12144

agcttatgta ttactttatc catatcacat gtacaaaagg gtaacacaat aatcacgcac 60
aggtgctggg tgtaccagca actctaccag tgcattgtag acattcgctt gattgtttgc 120
acaaaataaa tggaagtcca ctaagtcagt gcaatgattt ttgtccacac acacacaaca 180
tatcaaatta ttgggctgca cctcgtacta tatctaaaga tgatgattgc ttgcattctt 240
acataaccaa aagtttgaac aaatttgtaa taagcagcaa cgtattgtag ctatcacoga 300
ggatgagatg 310

<210> 12145
<211> 386
<212> DNA
<213> Glycine max

<400> 12145

catatttgat catcctacta agacgactga gagaactggg gcacataaag acggtgacga 60

tgacggagac acccatgctg tgactgccat tctgtaccg acaagaatcc caccaaccgc 120

acaatatctc tactcaatca ataacaaact gtctccttac ccaccacca gttatccaca 180

taagccatcc ctatatctac cacaaagtca gtctaccgca cttccaatga cgaacaccac 240

ctttagcaca aaccatatac accaaccaag aagtgaattg tgcagegaga aagcctgtag 300

aattaccca attcagtgtc ctatgctact tgctccatat tacttgatat tcaaggagcc 360

ataccctatc aacgtcatca cctcca 386

<210> 12146

<211> 189

<212> DNA

<213> Glycine max

<400> 12146

ctgctactga cctgaacgg cctcaacttt catatttaag cagaagatga catacgtcag 60

tgacatacct ttgtaaccct cagatggatg atccctgtaa cacacattaa tctacaagga 120

tctgtattac agctcaattc tgcattgtata gattttgggc tactcatttt tgtcccaaag 180

tcatttacc 189

<210> 12147

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12147

agcttccgta aaatttatat ggctataact gttgactcgg atgtccgatt acaaccataa 60

tgatgcaatc ctaccccaaa agcttattgg atagaagact ccaagaggat tgggctagag 120

cggtctaaaaa aggccctatg gttctcatga atcttaaggt agatttctga gcccatgggc 180

caaggctggg tccactcttc ttgttaaata ttagaatagg ttttccttct tttgngcctt 240

gtattttgat gcaatcctac cccccaatct tattggatag aagactccaa gaggattggg 300

ctagagcgac taaagaaggc cctanggttc tcatgaacct catggtagaa tttttagccc 360

atggtgatgc aatcctac 378

<210> 12148
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12148

atctctttta tcttagtgag agtgattctc ctacattctt gaggattca agaacacctt 60
 ggctgtatca aaggactntc acaacctttg tgtgttgccc ttgctggaaa gaggtaatct 120
 ttccttcctt tcatcatcac ccttggttctt tcaaaccaca attccagaaa atccacctct 180
 gcccagaatt atctcgtggc cataactccc attttacgca ctcaaagtaa gtgattcttg 240
 agcctaaatt gaatntcaga acgagacctt tcacctcggt ntggaatcac ctcatcttga 300
 gccctgtagc ttcagttatt gccatgtcta tatttctgtc cagccaccac ttaacctacg 360
 ttgtaccatc ccattcatgc attgtatgcc aagaaccacc ttattaagac ccacgaaatt 420
 agccacctta ttttccat 438

<210> 12149
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 12149

tctagcttgt atagttccgc aatttatggg tattgtgtag tgattcttga acataaatct 60
 tattttatgg ttaacgctat ctctagaaca tttccattgg atttaaatgat g tctgtg 120
 catttttatg ggaaaaaatg ctatgttttg aattgcaaatt tgtagcactt gggttaagct 180
 taacagttgg gctaagcgca tatccaccgc taagagtagc tttagtgcgc ttagcgc 240
 ggagaatcta gtagagcatc agcatcaaag tcacgcgcta agcgca jacta 300
 agcacagcaa gtgccttcag tcaggctaag ctcgagacta ggccttagcc c attcactt 360
 act 363

<210> 12150
 <211> 214
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12150

tctatactnt gtacaagaat gaagctctga taccactcgt tatccaagtt gtcctcagat 60
atcttaagaa aaggggnggg ggggtgaatta atatattcca aactgtttcc cctaattaaa 120
atatctatat cactctttac tcaaactata aattccctta atgaccatct tcttatatat 180
taattcaaac aaagcaactt gaatatgaat ataa 214

<210> 12151
<211> 446
<212> DNA
<213> Glycine max

<400> 12151
agcttggaag gtagtcatac ttcacataat atatgtatgt gtgttttaggt agtgaaaatg 60
ccttagatat gcatgtatgt aaacaaaaaa atacttcaca aaatatatat atatgtatgt 120
ttaggtagaa agataccttg gatatgcatg tatatagcaa aaatacctta caaaacatat 180
ataggtagtg ttaggtagca agataccttg gatatgcgtg tatatagcaa aaatacctca 240
cacaaatata cacatgttta tgtagcaaaa tacctcattg aaaataaaca tatgaacaaa 300
caagaaaaga gataaacaaa tgataaataa ggatgagaaa aataagtctg ttagctcgaa 360
aaccgatatg ctgttgacaa gagatgactt ccaactcttc ttgaaaaat cactgatcat 420
aactcagttt tataaatgtg tataca 446

<210> 12152
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12152

gagcttgaga tgagttcgtg agtgaatgtg aggttctaga gggtgaggag acatccttac 60
gcttgatatt attcaatcct tcatnttct cttctctttg gtgaaaggaa gcttcccagt 120
tatggagatc taaatctgct ggtggttctt ccttgtaggt acttgatgta aatacctgta 180
tatctattta atgatgctnt gtgtgtcact gggctatcag aacttcattc taccatgcat 240
ttgccttgat cacgtagatg tatgtgtcat taggatcatt caacaatgga aattgggtctg 300

attcttagaa catgatagga cggggctagn ttatcgtatt atcac

345

<210> 12153
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12153

agcttgaagc tcaatgtaaa gcttgaagat gtntgaaga agttttggct ttacatgcc 60
taactctctt gagtgatact tgtattgggt gttatcttgg ttgttgcatc ttagtacatt 120
tgatatttgt attacattat gcatcatcat ggtagtggtg aagaaaagtt tcaaagttag 180
aaattttttt tcaaaggcaa aaattctctg ctttaatcaa ttacagggtc atcgtaatca 240
attacaacaa gctatttgga gcttgtagag ttgagtctcg atcagtttaa ttgattacaa 300
ctatctcata atcgattaca ctgttggttg ggacaatgac tgatttatte aggagtctct 360
actttaatcg attaccaagt ggattaatca attacttctt tctcgttttag ttgttttagaa 420
gtgaacaaga acactttaat cgattactta gagcatctaa tc 462

<210> 12154
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12154

ccttctggag gaatcttctg gaaggcccat gtgggcctga ttgctattta caccacttt 60
ntactaaatg caccncttn tctatttatt tgtaattctt ttgcgtaac gttacgaaac 120
tttacgaatt tcgtaacgat acttattttc cttccgtaag gttacgaatc cttacggatt 180
atgtatttac tccttcttta cctttcgaag aagtcacgga aacttacgga ttgcacaaaa 240
acacctcttt tgacttccgc cacattgtag aatttcacgg atcgcgcaag cctgcttcct 300
ttagatntct gagacgtctc gggacttcat ttgtgtaaca aaggacgcca agtatctcaa 360
agcggctaac caaagatcgc atgtcatcaa gtaataatcc ccggacaaaa taaggatatga 420
ca 422

<210> 12155

<211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12155

agctntagaa cctgatttaa gacgttcaga aactgctggt aatcgattac acagtgcaaa 60
 ttatgaattc aaattgtaat agctgacgta aatcagattt tgccactggt aatcgattac 120
 catagagtaa atttgctgaa gaaagacttt ttaacttaaa tttcttggcc aaactttgtg 180
 ctacttcaat tggaattccc ttactatata atataccctc tctaagactc tagagactgt 240
 cttgatcatc catcatgaat atctctaag tctttgtctt gaatatagct ttgagacgca 300
 tgtgatacta tggcatcact caaacattca gcttgatcct ttttctacaa ctacttgtgc 360
 ttaatttcca cttattcccc attgctcctc tatctcttcg ggattaacta cttagtccat 420

<210> 12156
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 12156

ctcagggtcc acttatatcc catttctacc aactacaaag cctaagaaca ctatattatc 60
 tacacagaac gtgcacttct ctatatttac atagagggta gttttcctaa ggactgaaag 120
 aactttcctg agatgtccta cgtgatcatc tatgtccta ctgtactcca acatatcgtc 180
 tctataaaca actacaaatc tacctatgaa atcccttaag acatgatgca taagcctcat 240
 acagggtgctt ggtgcattag tgagcccaat aggcacact agccattcat acgaatcaca 300
 cttggtcttg aaagcgagat tgcactcatc actctt 336

<210> 12157
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12157

agcttggtgt tctccattgc actgatgacc atgacaggta cgtttcattt cgtctaccta 60
 tggtgttcta ttgaatagct aggtctgttt ctggaacctt tggtaacct aaggacctn 120

tttggtttct ggtgcaagga ttagggaact cgtcgtgacc tgagacccat tgtcactgcc 180
 attgaatggc cgagtctcga tgccattgtc agtgatgggt tcgaggcatg cttcatgtct 240
 tcattgtaac tttatgctat cgcgtagctg ctctttgtgc tcacttctct ctgaagcatg 300
 tntatgttcc cattgtaatt ngttcttatg aaaactagat ggttattggt agttagattg 360
 gtaattagtt actactacta c 381

<210> 12158
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 12158

tctagcaaga agcttctgac agtttatgac tatgataatg aggcagtggg agcaatgatt 60
 agttgctcag agaagagagg agccaaggca catagcagca cctgcaaaac caaaagaagg 120
 ttctggaagt gtggaagcaa aaggaccagt tgagagactt caaagtaaga aagcacaaga 180
 tagtgggtgag aatgggtgggt ttaacattga gtgcaggtgt ttggatcaag tggactcttt 240
 gggattgata atgatcacca atagaacgag gtaccttata aattggctgg tgaactccat 300
 gatgaagctg aagcacccta acgcagaggg gttcccctag tcaa 344

<210> 12159
 <211> 552
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12159

aaaacagaag agggannnaa gggtagagacc ttgaatacac tggactatcg gcgaannccg 60
 cgagcctctg agacactctg aggcattgctg gcgcgtgcag catgttatga atctgttcat 120
 cttcaagccc ttggcgagaa tatgcgcata atgcgttaca gtactgcatt actatccgtc 180
 tattggctga ctgatcacat tatcccgatt aatgtgagat attgctgtgg gcgctctgat 240
 ttacgagact attgaactat ggccaatctc ttcttgcatt tgctgcccac atacagtcct 300
 acctgctctc taatttctac cttctactct atccgcaagg agtctagcca taccgcttgg 360
 catgcagaat accacgctcg catgtactca acctcgcatg aatgaaatgc tactacatgt 420
 tgcaccttg aacaccagct tattgggtgca cctaagaact tgatgagaat cccgtagtgc 480

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12162

atttaccga tttcttcttt ctattgttga ccaatttgat atttctgggt gtgtttgtgt 60
tttcaatcgt attctgcatt gagcttcatt tatttctagc aaaactgcat cataattctg 120
gtatgtctaa cttttttttt aatcttttgt cccttattga atgttcttaa ggaccaagtg 180
gacaatttat tcaaggaatt gaaagagatc catgacaaat tcttagcact gatgatttcc 240
ttgtgtgcag caaaaaacag tgacacggga aattctttgn tcgcaaaaca acacaagctg 300
atgatgtctt tggtttggcc cttgtcttta ctcttcttgg taccttgnga catacttcta 360
ccataatacc ggacacaacc ttttttctat ctacatgtct atgctatgtg gaagtgtgtt 420
caatctgc 428

<210> 12163
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12163

agcttataat aatgatatag cctatatcat ttccaaatat gcatgcgaat taggaagcat 60
caacaagaat caagccaagg ctattgtgca agcgatcaat ggggcaaaac acaccaaagtg 120
attatgatga tggatgactc gaattctcac aaaggtaaac ttatcacttt cagattgagc 180
tttcaaaact atcatgacat gtgaaggaaa cacatagatt tccaatcaca taatgtccag 240
agacttttat gttcagaaca attaccatt acttgaacat atactataat tcaaagacaa 300
acatgcaaat ttaacacaaa aaactaaca aattagacta gaacccgaca naactaacta 360
aattaaacta atttaacaca actaacaaaa ccaaaaccaa agaacacact ccccgctact 420
aatacttaaa caacacattg tcctcaacgt 450

<210> 12164
<211> 276
<212> DNA
<213> Glycine max

<400> 12164

cttgataatt ctttgatagc ctttgacctt gttcccttcc ttgtttgaac tactacagcc 60
 ttaatgaaaa ccatatttcc atatcttaag aatttggagc ttggaattgt tgggaaaagt 120
 gtggggggtt tggtcttga caacttggtt gtggctatct tatgatgatt tgggcatctt 180
 gtgacattga tattggtaat gtgacatgct gagaatgtgt tctcaagcta agagtaaaaa 240
 aaaaaaatca aaaaaaaaaat tcaaaaaaat cgaaaa 276

<210> 12165
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12165

agctcttgtg gtctctctca ccaccaccct ctttcacctt atcagcaata gaaacattag 60
 tttgagaaga ttgtgtttcc actgtgacat gaacatgaac atcctttggt gttgttgctt 120
 catcatccat ttctgattgt gggttctcat tgccttgca tggaaattgt tgctgttgat 180
 ggtgatgggt gctccttggt cttcttgaca tggatgatgc atagtgaagt tctgctgcaa 240
 gagattgaac ctccattaat cttgctatct gggaaattta ctatgatgat aatctctaac 300
 angctctctt tcaacttaatt ttgtgtgggt anactctctca aagggaagaa gccatcatgg 360
 ctatagctgc acctcttaga cagcaagatc actcttg 397

<210> 12166
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12166

ctatcaagcc ttatctcggt attgtttgct ganactctga gggatgtact tcattgaggg 60
 tgaagcaatg atctttgacc agtgaccacc aaagagaatg agctaatacc tcacctacaa 120
 tctcgtaga gtatgaatca gattttgaag ttgcctttat tttttataag tttgttgggc 180
 aggtcctttt ttttatccat aagaattaaa ctgggtaccg agagatctat aatactcaca 240
 caccttactc aactaactaa agtaaatccc gttagtggca tgcatgggt taatatcttt 300
 tagaatgggt aaacttggtc atgtagctag tccctttatt tatacgaggg ctaaactgtt 360

atacttgctt aagtttgaga ttcaagagtg agattntaga atcaacatga t 411

<210> 12167
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12167

agctngaaga ggggtcttaaa gttctgacac caagtgttga tggatttgac acaactgtca 60
gccatattgg aggtcagttc tttatttaga ggagaagtga tcagtttttt aattctgagg 120
ctgtagcttg tgcttgcaat aacacctctt caactacagt tcttattcct cacagggaaa 180
gggaacacaa tctctgtatc attgctcagt tgttttgttt attttgggcc ataactctga 240
ataaattata taatgaactg gcttgtgaat gtgtcagcta ctgggtagtg tatattaaat 300
atcagtgaaa agcttttctga acaatgcggg catttatcgc tgattccagc tnttggggtg 360
gtactaaaca cgatgaattg tcttatgcta ggatagtgtt catttttaat annaccatat 420
attagtatag tcagactgat tcta 444

<210> 12168
<211> 253
<212> DNA
<213> Glycine max

<400> 12168

agcctgctga agacatcgta gagctctctg ataattatag atacccatga accagagatc 60
gaaatcatcc acagtaacta tttctatgta ttattgcgaa ggcttctcca cattctgact 120
ttagacgaca gactatatct ttgtaagggg aactgacacc tgaactgaca tatacattgc 180
actaacatat cagcagaagt gtgaagaaag ataacgagac tgctcaaaac atttgataga 240
ctaacactat aaa 253

<210> 12169
<211> 125
<212> DNA
<213> Glycine max

<400> 12169

agctgatact tatgttgtgt ggcggactta cttcgctgta atgattgccca caccagcttt 60
 gtgcactgtt ctgtcttccc gtgacgcttc ctttcatgat ccgctgagtg ggcttatagc 120
 ctaaa 125

<210> 12170
 <211> 524
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12170

agatggcttc nncgncgttg aaaatcgggt tagcngatag nananccent cncnnaatag 60
 nccacgcgcc gcctncanna nagcanngga acactattct ctatnnacta tctgtattta 120
 tancngcgag aggagtatag agtacatggt gtgggtttctc gaaggctcca tcccctacct 180
 aacacattac atatacaata tatagctatt aactctaatt tacgtaattt ctaagataga 240
 tttatatctg tcgacaacat gtactgtgag caacatttta taagtagtaa ttatttcgag 300
 tagcatattg gtacatttca atctatgatg atataagtat acggagtaat acggactgtc 360
 attatategc atgtgggtcc tcgttcaaag attattgtga taggtaccgt taagagtaat 420
 atatttatct aagtctaatt gtgcttgtct gacgcgggta ataatcagct cttataaaat 480
 attctctaaa tcttgcctggc atgtgtgttc gtagattaca tttta 524

<210> 12171
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12171

agcttgatga gtntatgtac tgcccagaggt tcacaaaatt aacgtggcaa gtgatgcggc 60
 actagaatat gcacgtcaac cctacctgtc agctctagca taggaatgag gatgtaacac 120
 ccttagcaac caggccatta gaccgacagg ttattaacaa atatctatat atttaaatct 180
 taatgataat gttatgattc gttcatcaag ttacaggtac ttatttatct ataagcgatg 240
 aattatctac tagctattat ctataagata tgatgtatct actagctatt atctactagg 300
 aattatctac aagaagtgtc caccactgtc atagctccta cagtcaagga tctgaagctc 360

ttatcccacg ctataaatac cagctcctgc attaatttg gttccatac

409

<210> 12172
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12172

agtggagcaa tccatatacc caccctagn tattgtgaat cgtttttctt aaccgccata 60
cctgtggata atgactagta tattcattca ctcatgggtc gaggtccgaa gagactttat 120
gaaatggact taatatctaa gtgaaagggtc actttaagac tctaagttta agaagtatac 180
atcttaccat ataatcgaga aggtacacna acccgctaac atgaagccaa aaagacacac 240
gaagctttta aggataatgt gantggcata tagcttatac taagagcaag aagacacaca 300
tttatatatg agacaagtga tattagatga cgcacacata tagatagata angtatctct 360
atttgtaag tanatgacac acaaaagctc ttgtaaataa catatagata aacataactc 420
tcttatacac taattatata gaactcntaa gtcttagtaa ctacta 466

<210> 12173
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12173

agcttgtatg tgcgtacccc accattgttc atagtataac attggtaatg tgtctactat 60
tattgtgatc atctctttct ccggcattgg aggtgccact tgagctgcca ggtctctcca 120
cctttgggcy tattctttga aagatctgtg ccccttattg cacatgttct atagttgcat 180
cctatccgga gccatatcag aattgtactg atactgcca acgaatgcaa ccattagggtc 240
tttccaagaa tggactcgag aaggttccaa ggtatgtgta ccangtaaca gctaccagtc 300
aagactttct tggaagacat gtatcagcag tttctcatct tttccgtatg ccccatctt 360
ccgacaa 367

<210> 12174
<211> 421
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12174

tctacttatg tggcagggcg ggcttccttc actatcttgc ctcaaccgcg agctctgacc 60
accgctcttt ctttccgcga tgcttctctn tatatccgcc tgagtgggtt tatagcctaa 120
accatacttc ccacgatatc ctttggcatt tatcaagcta gttatgccgc cgttgtcttt 180
gcctaaacctt attccgggtt cgtaaccgtt cccaacaga actcggggcca tcattactgc 240
tgcacgcggac aggcaagctt gccagagaa ggagtccacg gaggaatgc ttaccacctc 300
ataagactgg aatgcggatt ctaatgactc ctctgcggct tccacatgag gcatatagga 360
tgggcagctc accaagatgt cttcctcgcc tgatacgatg accagatgcc cttccactac 420
g 421

<210> 12175

<211> 448

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12175

agctntanac tgttctctta ctttattcac agatcttaag ctttgaagta ttacaagttt 60
gcttcattgc tatgtggtgc cacttggett atcaccggca accacctggt tatectgtgt 120
aaaactccat ggtaccagag ggctagggag ttatgggctt ctctcangat gctaattttt 180
ataggggtaa gcattntaga tntgatggat gagggaaatca ttaatttaca gttcaggttt 240
tcttaagctc ctgagtcctg attgtttgca aactcattat attattggtg aggtgggtcat 300
catactgcaa tatgtatcga caaattcata attcattntt aaaatattta gtggatcaaa 360
acacgttggt atacattact ggctngcatt atctttgagc actgttctat gaattatact 420
tctgctaagt caagtgtga ttaaattg 448

<210> 12176

<211> 349

<212> DNA

<213> Glycine max

<400> 12176

cacctatcta atcctattat gtgatatggg ttttgtctcc cttaatttgt tactaaattg 60
 tcattctaac tgtgaatctg caggtgggtt tgttgaatgt agatgggtat ttccacagct 120
 tgctgtcctt atttgacaag ggagtgggaag agggttttat agacaactct gcaaggcata 180
 ttgtagtcac agcagacaca gcagaagaac tcatatagag aatggaggta cgatattaca 240
 cgagacatgc tgattgtcat catgtttgaa gaggacgaga aaactaaatt gtatggtagc 300
 cttgtaggta ggtaacaagt agtgaacttg ttattcattt gttaatttt 349

<210> 12177
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12177

agcttgcaat ntcagataaa acaatcttga acaagttatg cagcaacaaa atataagaca 60
 acaaattaat atgacaatac acatggagat aaaaaaaagt atgaagatgg aagttagtct 120
 aatggagatc atagcagcat gtaaaattca taagaatcag aacaatattg atagtctttt 180
 tttattggta aaaatagtga tagaatttaa aataatagtg cattaataaa attcagaaca 240
 attagaagct tattcttcaa aagcaaaata atatattact aagagtggta tagaatataa 300
 catgtacca ataaaccac cattcaaagg caanaaatat attaataaan gtgatataga 360
 atataatatg tatccagtaa cccaccatt caaaggata ataatatatt aatgaaagt 420
 ctatagaaat taacatcctg tgatgctc 448

<210> 12178
 <211> 373
 <212> DNA
 <213> Glycine max
 <400> 12178

gacaagagt gtgaaggaga agctgaatgt gccagtcact atgtgtcagg aaagaatgtg 60
 atgagctaaa agatatcaac gtgaccacgg ttgaagcggt aaaacaggaa acgaataaag 120
 ctcgaaagga agaattggagc aagaacaagt tccaaagggc tttgtggggc agcagtaacg 180
 agctcaaact tataaaggct gagattgaca aatcaaggat ggaaagcatg gtgttagatg 240
 ataagttaaa gatttgtcaa aggtcaaaga gaagtttgac agagcagttg agcaaaatat 300

aagagaatat gttgataatc attgatcaat ataaggagaa ggtgaaccta gttgctagtc 360
acaggcagat gct 373

<210> 12179
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12179

agcttgtgca tcaactgcnt tctcctttat tttcattggg tatganaagc tagatagatc 60
aggaactatt atactcttgg aaaaaatttc tgtaattcag ccaaaaactat tttgagtcac 120
ctaaaagttc caacttcatt gtttccaatt tctcttttac tttcttttgc acgttntgta 180
tttctatttt agcattcctt ctgacttcat caattacttt ntgtgttcca agtgcagacc 240
ttgttcccaa ttagtatacg ttnttttaac taggttaaata tataaatatt cttccttgag 300
aaaatataaa caattggaag ctactatatt agcgtggcta aactctcctt caaggtcaag 360
tatgagtcac gcaattctat ttctagaaaa naaaaaagag aanagaaaga taatttgcaa 420
ttgtaaaacc tatatcaatt actaattcaa cgaaatatgt ctgtttctt 469

<210> 12180
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12180

ttattgcaga tacagaaata cttaaacaaa cctgccaatt aggggttntg cggctntntg 60
caaattccgc ccatgtttct ggatcaaggc cataacttgac tgtaggatca gatatttgct 120
gaccttcatt gtcagcaaag acaaattttg aagtcaatga agacttanat tgcctccatc 180
ttgctgcaac tgttgacatc accttttttt ttgcattntc accttcaggg atatcaaatt 240
tgcgctacac aacaaaagga gttatgtaac agtatgtaaa tgaatccttt anaagtaact 300
taacaacaaa atcatgaata caagtgtgaa ttacttacca aaatatcttt ccatattaag 360
ctctntagat cgtcggngac aacattccaa ttcgcgtgta taat 404

<210> 12181
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12181

agctntcttg aganatcttc cttgataagc ttctttgaga aanattcctt gagaagctag 60
 agcttagcta catacacccc tctcataact aaactcacct ccttgagaag cttccttaag 120
 aagattccct actacaaaga ctactcaaaa tgcctcgaaa tacaaggcta aaatcctata 180
 ctactagaat ggccaaatac aaggcccaaa cgaaggaaaa acatattcta atatttataa 240
 agataagtag gcacatactt agcccatggg ctcgaaatct atcctaaggc tcatgagaac 300
 cctaggggct tcccttggat ctctggcacc atctacttgg agtcttctat ccaatgctct 360
 tgcgngtan gattgcatca ttcctccac cttggaaagg atttgacctc aaatcttgag 420
 attcttcata ctctgggctc ccttcctcaa cacctat 457

<210> 12182
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 12182

gttaattaat atagttagta gcattaaata gttaactatg ttgtattatt ttgtcagaat 60
 tattcttata attatcgga ctcataattc ttctcttttc acttaattac tttcccacct 120
 aattaattaa tgggtgctag tcttctctatc taatccttat aagataggta atgcatttat 180
 ctttttagta tataacattt attgtaaaat aattatgggt atttgggtca aaaaataatt 240
 aatacaaaag ataacttgag aagactctta taagaaggga acaataaaaa ttgagaaaag 300
 attattatat ctagggatag agtgagtatg tccgagcact aagccccttg ttgaaactaa 360
 tggcatgctg acccctctga atacgacacc ctctcctctc atctttccct taccaag 417

<210> 12183
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12183

agcttgata aattactcgg aattggtaac tacattnttt aagctgaaag ttttactgaa 60
 ttntgtagac atttggaacca aaattataaa aaaagaacca agcgatttgg attaaagaac 120
 aaaattagaa aaatcacaca agttggatga aaaatcagtg tccaggaaaa taaaagtgaa 180
 aaggaagtgt gcttggttgg tagctcanaa ttntttctat aattggtgcc tactttatac 240
 cactcctagt tctgaaactt caattgaaaa taattatgaa aacaagtgcc aaaaatagag 300
 gtttcttgag tctttntttc gttnttcttt tttagtntt ctactctact ctatagcett 360
 tctaggtttg tctttgagtc ct 382

<210> 12184
 <211> 509
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12184

tatgcgcata tntccttacg aacgttcact tgcacaagac attctattat ctaagaaaaa 60
 atgcacccat atacaatcaa ggcagcttcg ttatctagat tatttacatg tacttccaag 120
 ttgtatttga tacttacatc acacacatct ccttggetaa atttacatac atgcatactc 180
 aaagcattnt gnggtaccaa aaattgcaca tgtgcacatc ttggtatttc taatacctat 240
 acatacacia acttcatgat gaatcttgac tatctacaca ataaggtgct acatttcatg 300
 ctcttttcaa gtttttgcta cctanagtcg catgcaaatt caagtatatt ttcctttgct 360
 gactaanatt gtattcaaat tanaaggat antttttttt gaatggattt ccttacataa 420
 catgcaacat atntatatat atnnttttgt gagacattnt gactaccann aaatatatgt 480
 acataccatc cagtattntg ctatcatc 509

<210> 12185
 <211> 405
 <212> DNA
 <213> Glycine max
 <400> 12185

caattcagag tcttcataaa tgacgaattg gtcttttagtt cttcttaagt acttaagtat 60
 ggtcttaacc acttttcaat tgttctcacc aacgtttgct tgatatcaac tatgtacacc 120

taatgcataa gcgacatcat gacgtgtata agtcatgggtg tacatgatag cctccagtgc 180
 actagcatat ggtactctac tcgtgtgttc tctttcttca cgagttgggtg gacagttctc 240
 cctactaaga gtaaattcca cacctacagg caaatagcct tgtttggaat atccatgtat 300
 atctcttaag atagatcaat gacatagatt ggagagtcaa gcacctattg atcttctcta 360
 taattttata ccaaatatag tgttctccac atctcatgga aatgt 405

<210> 12186
 <211> 542
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12186

ctgatccatg ttgagcccat cgatnangcg cacttagata ctcagcttat gatgatgagt 60
 ctagtngatt cnagtacgtt cgatgatgac aaagatgatg tacgaaaacc ctgagaatga 120
 tctcaagaat aagtctaaac agtcaagatc acggtaaatt tcaaggttca tgagaagaaa 180
 tcaagaagat tccctattca cgataagatg aatccangat tcaggagaag acatcacgaa 240
 gacttcacat gggatgtatt gaaaagagtt ttctagcaca cacatagcac aatgttggtt 300
 ttcaaaagaa gttttctcan aatattctaa gttaccgaaa gtcttactct ctggtaatcg 360
 attaccagtt tcctgtattc gattaccagt agcagaggtt gatgtcaaaa gcttctaact 420
 gaatctgcac attccaattg atattaatgg tgtatcatta catatattgg aatcgatact 480
 agtgttttga cgttgaatca catcagttgg agagtcctct tttctanatg cttgtgtatc 540
 ct 542

<210> 12187
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12187

agctntcatc acatcttacg gcagtacatc ttgagatggt ttttgggacc agtcgtccct 60
 ttatacttgt cgaagtccgg cactttgaac ttcgggggaa taacaacatc gggactaag 120
 caaagatccg tcatgtctgc gaacggatag tccccaaatc cttccatggc cctcaatctt 180

tcctcaagga gatcgagctt nctcctttct tcagttgctg ggggcggtcc ttccgtggac 240
 aaaactatag gtggtgccgc gatgtcnggt tgaggcaacg ttctgtgtgc cggcccttgc 300
 gggatcggtg gatagaactc gacatccctt cgagcatagt cttgagggtc tntatggact 360
 tcgtc 365

<210> 12188
 <211> 235
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12188

ctttntataa aatgagaagt tctgaactca tcacgttata taataaacct tggagtggat 60
 ccaagtgtc cgatcattca tttgcatatt catgntttgg tggccgactt caccgtgttt 120
 gtttcttttag ggaattcacc ataactaaga aagcaciaag gcacccctat aacactcgat 180
 ccagaaaaat ggataatcaa gagggcggtc aagagcagat gaaggccgat ctata 235

<210> 12189
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12189

agcttgccac ccagctcgcc caggcgagca aggttgcttc cttcaaaagc aacagccttc 60
 tggaggaatc tttatgaggg cccaagtggg cctgggtgct atttgacccc ccatttttat 120
 taaacacacc cctgccttt nttttggtga ttcttttttc gtaaagtatt ggaaacttac 180
 gaatttcgta acgatacctt gtttctttcc ataatgttac ggaacataat catccccctt 240
 tntttgactt actgaatgtt acggaacttc actatntgtg caacaatgct tccttttgat 300
 ttccggtgtg tcacggaacc tagcggattg tgcataata ttttcttttg attcccgga 360
 cgtcacggaa tttcac 376

<210> 12190
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12190

tctatagaag gttcattcct aattttctcta caatagcatc acctctcaat gagtagatga 60
agaagaacgt ggcattttacc tgggggtgaan aacaagagca agcctctgct ttgctctaag 120
aacagcttac taatgcacct attctagctc ttcttgacta ttataacact cttgagctag 180
aatgagatgc ctctggagtg ggagttggag ttgtattgat acaatgtggg caccctattg 240
cttatnttag tgaanaactt catagagcct ccctcaacta cccacactat gatacacagt 300
tctatgccgt aataagagtc ctccaaactt gggaacatta ccttatctcc aacgaatttc 360
gcattcatag cgatcatcaa tcacttaagt aca 393

<210> 12191
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12191

tgctagcttt tagatccggt catggaaaga ctgggcaact gccttcatta ggcagtacca 60
atacaacacg gatatggctc ctgatcgga ccaacttcag agcatgacca agcgggagca 120
tgagctcatt aaagaatatg ctcanagggtg gagagaccta tcagcccaag tcgtcccccc 180
tatgactgac agggaaatga tcacgattat ggtagatacg ttgccacat tctactacga 240
gaagctgata tgatatatgc cggctaactn tgcagacctc gtcttcgctg gagaaagaat 300
cgagctcgga ctgatgaaag gcaagtttga atatgcctcc agcgttgccc ccaacaacaa 360
tagaagagcc ncagtgggtg gcacacggga gaaggaagga gataccacac cgatcaccac 420
cgccctaaca tggat 435

<210> 12192
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12192

gtgcccttga cctgtctgan ncttgatggc aggcccgga gtatccattt tactttgttc 60
taaccaagac cttggagagt cttttcgacc atccattcaa aagacctata tcttattgaa 120

attttagcta tctgatcagt cgactcttcc ctccatctga tcctcataag gttactaagt 180
 tgagttttcg aatatgtctg atttatcggc acaaagttta ctttgaatca tcggatttgc 240
 tcttccctct atgttatatt tttatgttct cgtcattttc ttcgtacgtc tgttgccctct 300
 cctcctgact attatcattg catcgttctc 330

<210> 12193
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12193

tgtctttcta ttgaggctga gctaaacgcc aacatgctgc gctaaactac aagcctcttc 60
 nggtgtgaaa attgtacact tatgctaagc tcacgtgtgc gttaagccta ttctgcacaa 120
 aaatatgggt tttgtgtcta tgaattaagc gccagcttgc tgtgcttaac gcttgagtaa 180
 natttcataa tgcgcgctaa gctcaggatg gtgcgctatg tgactagaca atagtttagc 240
 cttatatctc tgattttgtg aaataacctg tactaatctc ttgtgtttgt cttatatatta 300
 tgnagatggc atcttatgaa gatgaataca ccctatacac ctaccaagc caaattcnat 360
 agatgcacta tcacatgcca agacgctggg gagagatata tatacattgt ggcgcctcac 420
 gagctactac cagaaatgaa tgtgn 445

<210> 12194
 <211> 226
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12194

atcacatgtg gtactaggtg gcgtgcggtc gatggtgcac aacatgttnt ccacatccac 60
 tatgcgcgca taaaccacc atcccttgtt gccacctcc aactgagctc acgtactccc 120
 acgtaacca tctctcgtt tctctcaaca ccgggtcccc atcaatcctt cgaagcggtc 180
 cacaacagtc cagcaaaact gcattcacac cgcacaagct atcaca 226

<210> 12195
 <211> 400

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12195

agcttctttt ntaaattggca ttactacac cgtcaaacan atatgaaaat aatcagctgc 60
cggtgtttgt ttggtagcta aaacaaggca gaaattgtaa atttaatgaa aagatcaatg 120
gttaaggaat gataatgtaa actaattntt attctcaatt aatactcaat taattttaaa 180
tggcattntc taattgatat aattnttaag ataattctat taacaaatta acanattgtg 240
attttggta attgtattct tcaaaagtgt tttttttatt aatatgcttg tctaaactat 300
gtttctcttt ntataataag taatatctac ttattacaaa gtatttctta aaaacatctt 360
tttttaaaca ttatgtttta agttatcttc tcttaatatg 400

<210> 12196
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12196

tctactacca caccacaacan atctagatct cataaccttg cactcanaag aagaagcaga 60
agtcgtgttg tgactgttag tggtatcttg ttcaacaaca atgtgagtct tgagagaaga 120
accagatcaa cacctatctt taagcctagc agaactagta cttcctgatg ctgagttaat 180
ggttgagatc cttggagtgt tggtgtctct gaagctcttg gagttgagct tttggatgat 240
ttggaagaga gatagggaaa agaccacana tatgtttctc ttcttgggac taanacctcc 300
aatgaccaaa tcgttgtcat tggtgatcaa agagtgggtt cttcgcagcg tgggtggtgga 360
tttgctacac ttgagaacaa tattatcgaa ggttggtgat 400

<210> 12197
<211> 385
<212> DNA
<213> Glycine max

<400> 12197

agctttgggt ctaatagctc caatcacgtc tattccccat atagagaacg accaaggcgc 60
tgccaagaca ttcaaaggta caggtgaagc attgacatta ttgacgaagg cctgacactt 120

gtggcacttt ctcacatgga tgcaacaatc gttttccata gtgagccagt aataccctgc 180
tatcaaaatc ttctggggcca tggcatttcc attggcatgt gttacaaagg atccctcacg 240
tacttccact agcatctgct tagcctccct ggcattccaca catcgaagca aaaccatata 300
atgggtcctc tatgatggga aaaccaagtg cttggttcaa gttggatctt ctaggatgga 360
atgtgtgcac caggagcaac aaccc 385

<210> 12198
<211> 252
<212> DNA
<213> Glycine max

<400> 12198
gtgtctagac ccttgacccc ccctgggttc tctcattttt ttttaatccc ccgttttatt 60
tagccctgcc ttacctggcc tttctttgaa atgggctgct ccctttata cagccgtcct 120
tctaaattct gcttttttct tctcctgctg cattctcctt ttttttttct agtccccctt 180
ctcttctttc aattttaccc ttctttacta cccttgttta tatcttctg ctttaacttt 240
ccttcccttt tc 252

<210> 12199
<211> 392
<212> DNA
<213> Glycine max

<400> 12199
agtttgagat gaggaagtgt tgaagggtga aacttctctg ttttattgtt gaccacagag 60
cggtacctgg agatatgtcg cggagggtcac cgagaccttg cggacgtcat gtggggtgct 120
attgccc aaa accaagcttg accaatcccg acccaaccg ggcatagtcg gtcagtgaga 180
acctgtgatg tacctaagca ggcgagctcc tggcagtcaa cagataaaag gaaaacaaga 240
ccacaaagta aggaggcttg tgggtggctgg ccagctgtga atttgtgta atatgtggat 300
gggtggcctct ggtaatcgat tactaagggt gggtaatcga ttacaaggct tataaatgaa 360
gacaggaggc taagatggtc tctggtaatc ga 392

<210> 12200
<211> 287

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12200

tattatacga gctagagcac atatccttaa tgatcttgat tgcatacaata aagggctcta 60
acatgaggct accncacaa tcaacatctt aacttggtgct attatgtgag gacactccac 120
catagaanat gtgaaatagc ctttggttggg agaagccatg atatggacaa cttctgatcc 180
tttcttataa tctctcttac gcttcaagta gactctcttg ctctttctgc acaaaattcc 240
caatgtccct tatgtactgg tttatcttag aagagaaata tttcctt 287

<210> 12201
<211> 332
<212> DNA
<213> Glycine max

<400> 12201
tatggtagct tctgggaatg ataactttgg tacagagtcg cgatctgtat tagatttttg 60
tgatggcgtg tgcataccat attattccac attatgagta atggactttt ttttaattgtc 120
ctgataaatc atcaaccatg tagcattgag tcgtaggtga ggtccactat acgaacgaag 180
tggggaatta tggcccaact ccaagtgact gaaaagatgg tgtgcatgat attaatgtcc 240
gtggctcgtc ttctggatca ggcgagggtc ctactacttc tactagcgat gacttctggg 300
attgattgga attatccgat gactctctag at 332

<210> 12202
<211> 430
<212> DNA
<213> Glycine max

<400> 12202
ctcgcgcagg cgagcaaggt tgcttctcc agaagcaaca gccttctata tgagtcttct 60
ggagggccca agtgggccta ggtactatct gcacccacat ttctactatg tacaccccc 120
taccttactc ttggtgattc tttattcgta tagctacgga aacttacgac attctgaacg 180
atacttggtg tctttccgta atgctacgga accttggtgaa ttacataatc acccggtttt 240
tgacttactg aatgttacta aacctcacta attgtgcaac gatgcttcca tttgatttcc 300

gggtgtgtcac ggaaccttac ggattgtgca tcaatattct cttttgttgt ccggcacgtg 360
 ccggaatttc acaaatggcc tagtgatggg tgcaagcacc ttacaatgac taaacaaaag 420
 tcgcatgtca 430

<210> 12203
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12203

cgtacnncca ccattttcat agtagaacat tggtaatgtg tttactatca ttgtaataat 60
 ctctctctat gttattgagg gtgctacttg agctgccaaa tccttccacc tctgggcata 120
 ttccttgaag gattcatgct cttttttgca catgttctat agttgcatct tatctgaagc 180
 catatcagaa ttgtactgat actgcttaac gaacacaacc attaggctct tccaagaatg 240
 gactcaggaa gggtcctaag ttagtatacc aggtgatagt tgtcttagta agactttctt 300
 angagaaatg tattagcagt ttctcatctt ttgtgtatgc ccncatcttc cgacaatata 360
 tcttttagatg gttcttggag caagtagtcc ccttgacttt gtcaaagtcc gacaccttga 420
 acttgngaat gaccatgttc ggggtactaag aacaactctt ct 462

<210> 12204
 <211> 381
 <212> DNA
 <213> Glycine max
 <400> 12204

tcaagtttga caggtttgaa atatatctct gatgtcttat atgtgcctga cattgatcaa 60
 aatctactta gtattgctca gcttgtagag aaaggcttca aagttatatt tgaagaaaat 120
 tggtgcttga tcaaagatgc aataggaaaa gacgtattta gggtaaaaat gagggctaaa 180
 agctatgctt taaatctaag ggaggagaag caaatagctt tttcaagcat gaccaccaat 240
 gttgaactat ggcacaaaag gctcggacac ttccatcttg ctagactttt atgcatgcaa 300
 aaacatgcct tgggtgaaagg tgtgtcaatc cttgaagaca agttagccga ttgcgtggct 360
 tgccaatatg gtgagctagt c 381

<210> 12205
 <211> 210
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12205

atatgacaaa acacatcgat gtgactctat actctctcat atatgtgatt gaatctgata 60
 ctgtgaagag ctancatgtc attacagaag ataaccoggc tgatatgttc atacacttca 120
 tctctagtgt caagatcaag ctctgcttgg actagataat acatcataat gcctgaggca 180
 catgagagaa ttgcaaccct gattcacaag 210

<210> 12206
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12206

tcaagtttga tattatgaaa ngncgaaggg tgaaacttgc tgcttttatt gttgaccaca 60
 gaccggtacc tggagatatg tcacgggggt caggatacct tgaggacgtc aagtgggggtg 120
 ctattgccc aacacaaact tgacctatcc cgaccagcc cgggcatagt cggttagtga 180
 gaacctgtga tgtacctaaag catgcgagct cctggcagtc aacagataaa aggaaaacaa 240
 gaccacaaac caaggatgct tgtgggtggct ggccacctgt gaatttaagt aatatgtgga 300
 ttgcggcctc tggtaatcga ttaccaatgg tgggtaatcg attactatgc ttaagattga 360
 ggacacgaag ctaagatggt ctctgggaat c 391

<210> 12207
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12207

tatttgactt tcctatgcta tctctacata cataanacaa cccaccatc ccagtgttgc 60
 anaatcatat tcatatatca atggggcatt tcaccgagca cttgggtgggc gcacgtttgg 120
 acataaattg caagagaatg ggggcaatgt ggcatgcccc attgcttcag aatacaacat 180

aggcctaagg tcggtcocctt tcctagtaaa atatatcact agggcctatg gatatttcaa 240
gctgcccgcga atccatgagc cgctgaagca attcttccac tgccgggatag gtttccatgt 300
cgtgcgactc cccgaggtga tccgccacgg gagaccatgc acgccgcttg cagtgattga 360
tagatgaagc gtctagcagt agccacctct tct 393

<210> 12208
<211> 372
<212> DNA
<213> Glycine max

<400> 12208

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tccagaagca accgccttct ggaggaatct tctggagggc ccaaattgggc ctgggtgcta 120
tttgcacccc catttttact aagtacaccc ccctctgctg ttttttggtg attctttttt 180
cgtaaagtta cggaaactta cgaatttcgt aacgatactt gttttctttc cgtaatgtta 240
cggaaccttg cggattacat aatcatcccc ttttgactt acggaatgtt acggaacctc 300
acttaattat gcaacgatgc ttccatttga tttccggtgt gtcacggaaa cttacggatt 360
gtgcatcaat at 372

<210> 12209
<211> 570
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12209

cgccttgat gcattcgatg ncgactccaa naacacnaag ccagatctat agtcctaant 60
ctcatgtagg tcttatggcc acttcacgct ctgattatta tatgggctan agcacatagt 120
cctaattgatc ttgattgcat caatcatgcy gtataacacg acgtgaccta caccaggaac 180
atattaacct ggcctattat gtgaggacgc tccatcatac aacacgtgaa atagcctttg 240
tcgtgagaac ccatgatatg gacaacctcc gaacctttct tatagtctct cttacgcttg 300
cagtanactc tcttgctctc tctgcacaca aataccaatg tgccttatgt actggctgat 360
cttaaaagag aaatatttgc ttaagaagga ctggtgcact aggcaatgtg gtatactgct 420
ctcttcacgt cacataccta tccatgcctt cgatcgagag agaagganag gcttaagtct 480

aattattcag atgatacctgg tctgtttact gtgtcgccac ttgaggactt ccttngtgnt 540
 gatangactt atggaaccct actagccgcn 570

<210> 12210
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 12210

agctttaaca ttcaacttcg agcgtctcga tatattacag gactcaatca aacatccgag 60
 aaaaaagtta ttgtcgtttg aatttgctca gaggttcaac attcaatttc gagcgtctcg 120
 ttatattaca ggactcaatc agccatccga gtaaaaagt attgtcgttt gaattggctg 180
 agagcttcaa cattcaattt cgagcgtctc gatatgttac gggactcaa cagacatccg 240
 agtaaaaatt tattgtcggg tgaattggct cagagcatca acattcaatt tcgagcgtct 300
 cgatatatga cgggactcaa tcagacattc gagtaaaaag ttattgtcgt ttgaat 356

<210> 12211
 <211> 539
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12211

ctaagcttct atccaggcac attcttggtg gtgaagctcc ttcttccatg gtttattccc 60
 ttgtggatgg tgcttccct ctctctnnt cctttgctt ccgctgcac tccatgggtg 120
 aaaatcacca ttaaaagacc tcattgaagc tcanagatcc agcctccata gaagctccac 180
 aagcaagctt ccatcatacc tccatgtggg atgaggatga aattattata gatacctccc 240
 tctgggatga ggaagagatt ntggatacct ccatttatga tgaggaagga gtgggatgcc 300
 attgcatgaa atatgaactc ctgaccttt tgaagaatnt gagatccacc ttggttntgg 360
 gaaccataga attgagtctt gtaattccag gaaccactaa gttgtgtctg ttatatttat 420
 ttggatgcgt tgaggatttg tcatttatnt aaatatnta tttattcata attccatgaa 480
 tggggattgt ntaatatgat ttactgcct atatatacat aataatctat ntaaatcat 539

<210> 12212

<211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12212

gacactatga tactcagctt gagccattca nacaacaata acgttntact cggatgtctg 60
 attgtgttcc gtaacatata gagacgctcg aaattgaatg ttgaagctct gagccaattc 120
 aaacgacaat aacttttttc tccgatgtct gattgagtcc cgtaatatat cgagacgctc 180
 gaaattatat gttgaacttc tgagctaatt caaacgacaa taactctttt ctcggatgtc 240
 tgattgagtc ccgtaacata tcgagacgct cgaaattgaa tgttgaatct ctgagcaaat 300
 tcaaacgaca ataacttttt actcggatgt ctgattgagc ccataacat atcgagacgc 360
 tcgaaattga atgttgaacc tctatgccaa ttcaaacgac aataacattn tactcggatg 420
 tatgatngag tcccgtaaca tatcgagacg ctcganattg aatggttgaag ctctga 476

<210> 12213
 <211> 403
 DNA

<400>

attttttatt tcacgtatgc aacta... cattca... 60
 attggaggtc atagttgaca gggtyngtc tar 120
 aaaagag... aagg... aaga 180
 gatacgtgag gataattttt aaaggaattt ccaagccaag agga... rat... 240
 caaagaagta atgcatgaaa gaagacc... racc... 300
 ggataaatag atagagcata atatcat... 360
 tcataaggac catcaaattc acatgataat ctaacacaat aaa 403

<210> 12214
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12214

atataagacg atacttactt anacaccgtc cttganagtt attcttttaa gacagtacct 60
acgtaagcat ncgccttgaa ataaagatta attttaacta ttgatanttt ttctgaacga 120
tatttcatca gagaaaatat gaataattaa caataatatt tattagcatg attgtaatta 180
atattaatat taaaatttat ttaaaaaata aatattaaaa tgatatatta aataaaaaata 240
agaggttgac aaattagaaa ttccagagtc aatttcatag aanaaaaaag ttatcaaagt 300
tcttttatta taaagtacct cataaattaa ataattattg tttcacaata atttagagga 360
ccaattaaca ctttgacagc ctccaagata ttatctcaa cagcagacac aaagagaag 419

<210> 12215
<211> 430
<212> DNA
<213> Glycine max

<400> 12215

ggcgactccg agctcgggcc cgggatactt aagtcacgcg ccgcatttta tcttgtcttc 60
gtccgagcgg aataaatgct gtcaaataaa caatatcgca gacttcctac catatggtct 120
ggtgatagat atatatatat ggcccgagag agacagagag atatataaat ctccagaccc 180
tctctcccag attctagatt gagcaactaa atatcaatta tatcagaaag ctacttgaga 240
ttccaagttc caactcaagt ttaaaatgtg gtgaacgcca aaagtgggta aaataattgt 300
accaagtgta ttatattaca ttacatataa cgtgtcaacc tataagacgt gagaaaaagg 360
gtgcagatgt tttggtatgg atgtgattat attatatagg gggcaaatac agaccatatg 420
tatatcaaaa 430

<210> 12216
<211> 586
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12216

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agcatgagcg cttcgtcant accggtctcc atcagacgta ctctgtagga ggtatcggcg 120
cggagcatgg gtggtattga caccacacct caatactgag acgctcnctc ttatagcagg 180
actcagtcac acattcgccg taacagttag agtctttacg aatcgctcag agattcttca 240

tttcctttcc agcgggtcgc gatatcacag cgcttcatca gacatccgtg taagaagtat 300
 tgccatttga attggcttaa agcttcaaca ttcaattccg agcgtctcgt tatatgacgg 360
 gactcaatca gacattccga gcaaaagtca ttgtcggttg gattgggtca gagcttcaac 420
 attcatnttg agccgctcga tatatacagg actcctcaac atgcgggtaa aacgtatctg 480
 tcgctcgact tggttcagag ctacacaatc aatcttgagc gtgttgggtct cttacacgac 540
 tcaagccaca ttengagaaa agttattggg tctggatggc tccacg 586

<210> 12217
 <211> 435
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12217

tgaagctcac tacaagcett aagtgaacaa ccatgatatt tccatatact taaggaattn 60
 tggagctttg gaattgttat gcgaataagt gtggnggggtt tttgtttcat tggacaactt 120
 gatttggttg ctatgcttca tgatgtattn tnggccatac ttgatgtaca ttgtatattg 180
 gttaaagtgt ggacatgctg aatgaaatgt tgtttctcac aggctataga gtaaaaaata 240
 aaatacaaaa ataatcgaaa aacaatatc gaagaaagat taagaacagc actaaagttg 300
 agtgaataag atcttatatg gcacaagaat gatgaaactc ttggctctac tcttcatgtg 360
 taattgatat ctgtacttct tgttatntc ttattacttt cttaatatgc acttattgcc 420
 ctttgctcct ctatt 435

<210> 12218
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12218

agtttggtt catcaaaata aactttcatc cggcgcttta gtcttctcag tctttcctcc 60
 tacaaaattt ttacaaagtt gctgctcaat gaattcattt ttttcttgt tttcctcact 120
 gctctctgtc ctcaacaaat tcatgacaag aaaataaatg aagaaaaaaaa actattaaac 180
 catttatgat ggagaacacc agacagtttg gaaacaaatt atgaatgcat tttcaacatt 240

gtttctgcaa ttattctcag aaaacaaaac aacatttcca acaacatgaa actctagtta 300
 taatcacatt nttcaattac cttcaaaaac tattgccagt tagtttccaa aagtntttca 360
 gttattctca aaaactatat tgaaatatat tntcacaggt cattga 406

<210> 12219
 <211> 326
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12219

ctcgncagg cgagcaaggg tgcttctcc agaagaaact atcttctgga ggatatcttt 60
 ggagggccca agtggacctg gttgctatct acaccnct tnttactaaa tgcaccnct 120
 tatatatnt tctgtaattc tttttccgta acgttacgaa actttacgaa tttcgtaacg 180
 atacttattt tcctttccgc aaggttacga atccttacgg atttatgtat ttactctttt 240
 tggctttcaa agaagttacg gaaactcag gattgcgcan aaacacctct tttcgattnt 300
 cggcacatta cggatattca cggatt 326

<210> 12220
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12220

atactcgccc attatctcag ntgtctgttg tttattgcat tcttacggaa tctcttaccg 60
 aaaagacaga acaatgtag aagaagttcg tacaacagga ttgttntact gcaatgatct 120
 ggttgattca atgcagatga gaggagaaga cnattaatcg gacatagaaa catatttgag 180
 aaattgtaga gtatgtctgg gtgcatagct tggtaatgaa nacagatggg attataactt 240
 tctaaccgaa tgagaaccaa tacaacagaa tatgatatan atcggccttt taacaagtat 300
 taattcttaa ttctaanata tattntaaat aacaagtcag acatatctat gataaactgt 360
 a 361

<210> 12221
 <211> 383

<212> DNA
<213> Glycine max

<400> 12221

agttttgatg taacatttgg agaggttaat gaaacaacga gatgatgogc tccatgagag 60
gttggatcaa atggagaata gagaccatat gaattgctca agagcttcca ttgttcaatt 120
tcgagcgtct agatatataa tgcgcctcaa tcggacctcc gagttaaaag ttatgaccat 180
ttgaaatgct caagagcttc cattgttcaa tttcgagcgt cacgatatat tatgcacctg 240
aatcggacct gcgagtgaca acttatgacc atttgaattg ctcaagagct tccattgttc 300
aattttgagc gtcacgatat attatgcacc tgaatcggac ctgcgagtga caacttatga 360
ccattttgaa ttgctcaaga gct 383

<210> 12222
<211> 401
<212> DNA
<213> Glycine max

<400> 12222

tagaaacccat aatgacaatt ctcacatttc aaattaaaac caaattacgg catggtgagc 60
accatcatga gtttcagaac ttaataccaa atatatgcac cacattcaca taatgggcac 120
tgccatggat gttgtgtttg tcctcttctc tgtgtaaagc gaccacatga tcaagcgaac 180
atcattcgtc accctctcaa gcacgtacc agatcaagat cgagatctat aaccaaactc 240
ataatgcaca atatcgagat ttgtgtggtt cgcggtggtt tatggtgggt gacgttctca 300
gaggttgatg gtggattgat atatcggtt catgtgcaca ttgtgtattg tagtgggtaa 360
cacacggtag agtcactact tgatcacatg acatcggtga t 401

<210> 12223
<211> 203
<212> DNA
<213> Glycine max

<400> 12223

gctctgatac cacttgttgg acaagtggcc atagatatct taagaaggag gggggggggg 60
gagggtctat acttctaact cccacgccct atcaacgcgc ataatatatc tagacgtc 120
atattttaca atggaagcta tttggctata cacatgctca taacctttca ctcacagggtg 180

cgaataaggc gcatcaatat atc

203

<210> 12224
<211> 376
<212> DNA
<213> Glycine max

<400> 12224

agttttaacc tcacgtccc tcacagtctt tagatttggg agccaatcca atccttgtgt 60
tcggactctc agccacttat gatagctgcc gatgatcca ttactgcttc ccctaagctc 120
tctgtccttt cttcacgccc catcccatgc cttgcgaact ccttggagta ccctcgcgtt 180
gtggtcacta aaaccccggtg cgatgaaagg cgtgatgctt tcgtctaatt ggcgtcctct 240
catggggtag ccaagctgtc ttatggcgag aacgggatta taattaatac aaccccttgt 300
tcccatcaaa ggaacatttg gacatccttc gcatgaagat agaattctga ttcttccttc 360
cttctagcga gggaac 376

<210> 12225
<211> 398
<212> DNA
<213> Glycine max

<400> 12225

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agacaggctg tgtgggttat ttagggatgg cctttgtgga tgactgagtg gtgggtaatt 120
agaaagggtt atattgggtg agtaatgatg ttgctgagct ggtgggggat tttccatgta 180
tgaacgacag tcacaacatg ggtttctcct tcattctcac cctcttcatt tgccccagtt 240
ttctcattcg tccaagcagg atgattaaat ttgcctcttt tcagaccac ttggatcctt 300
tcgctggcga agaccaaatt cgtaaaactt acagggtgtg aaccaccat ttctcatagc 360
agaacactat taatatgtct actatcattg ctatcatc 398

<210> 12226
<211> 397
<212> DNA
<213> Glycine max

<400> 12226

agttttcttg agagaacttc cttgagaagc ttctttgaga aaacttcctt gagaagctag 60
 agcttagcta cacacacccc tctcataact aagctcacct ccttgagaag cttccttaag 120
 aagattccta aagaagctag agcttagcta cacatacctc tctaatagct aagctcacct 180
 ccttgagatg agaagctaga acttagctac acaccccccta taatagctaa gctcaccccc 240
 atgacaaaaa acatgaaaat acaaaaaaaaaa aagtccttac tacaaagact actcaaaatg 300
 ccctgaaata caaggctaaa accctatact actagaatgg ccaaaataca aggcccaaac 360
 gaaggaaaaa cttattctaa tatttacaaa gataagc 397

<210> 12227
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12227

tatatggact atgacagagt actagctaac tacatgtact taatttgac ttctcattag 60
 cgacacttaa ttgcttgga gttgatgaag cgacggcttt cgcccagctt cggatctttg 120
 ctttgatctt cactgcagcc accttagcta attcattatg ctcagccaca aggtacagat 180
 gaggttggtg tgggtcacac tcttccaaag tgatgcaaca ttctttgtaa tccttgctg 240
 ccattgccat agcctcaata gacatgtttc ctttccta atagggatat tgaggatcga 300
 tatatgatta atgacgcana ctaagtgtga ctgtgaattg taattgacgt agtaatagcc 360
 gcatagaatc atttgatat ataccata 388

<210> 12228
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12228

agcttgagtt gtacaagcca aaagtgcag tgattaatac ttgtaacttg ttgaagttaa 60
 tgaaacttgg tggttagcca agaactggac atatgggggg atgatgcaat cctaccccca 120
 agggcattgg atagaagact ccaagaagat tgggtcagaa ctactgaaga aggcctatg 180
 gttaggtttt tggcccatgg actaagtatg agctcactta tctttgtaca tattagatta 240

gggtttcatt attttttggc cttgtattta gggctccata gtgtagggag ggtaccctag 300
 taaagtagga tctttcagcc tatgtattnt agggcacata gact 344

<210> 12229
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12229

agccatgttc tcagcatgaa gattaacagc cgaatgctca acatcagaat attcagaatc 60
 actagcaaca aaatactcag aatgctcaaa atgctcanaa tgcgtagaat gatcaggatg 120
 cacactatgc ctaactaatc tatgaaaggg tctatctatt tcaggatcaa agggttgttaa 180
 gtcacgtgga ttgcccctag tcatgcacta tatgcagcaa ataatgtgtt ctcaaacaag 240
 cacctgacaa gggggtaaaa ctacaactat agtcaaacga tatccaaagg agctgagatt 300
 ntgtcagcaa caccctagaa tcatgaacag atagcacana agatntcaaa caaaaattca 360
 aagtctaact atgaanacta cctaagcana gttatgaaaa taggacaata atact 415

<210> 12230
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 12230

agcttgttgt atttgccatg tttggatgag ttagacatac ccattctgtt ttacgggtttt 60
 tgtgatgatg tttgtgatgt ttatatgctg aaattgctga tggaaatctg ttagagatga 120
 agggtagaat taacccaagg ttagaaagtg agaatgtgat gttatgagtg gaaaaagagt 180
 gagactttga gagttggaag gctaagtctg aattctgtgg taaatggagg ttagagtgag 240
 ttaatactag cttgaaatgt catttagaac atgtgagaaa ggttacgctg agctagagag 300
 aataacaaat gaccaaagtg aacaaagagc cattgctagg gcaaatttgg gtgttg 356

<210> 12231
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12231

ctcactcgga ggccccgattc angcgcataa tatatcgaga cgctcganat tgaacaacgg 60
 aagctatcga gaaattcana tgggtcaatac ttcgaactcg gaggtcctat taagggtgcat 120
 aatatatcta gacgctcaaa attgtacaat ggaagctctc tggctataca aatgggtcata 180
 acttttctact cgaagggtccg attaaggcgc ataatatatc gagacgctca aaattgaaca 240
 atggaagctc ttgagcaatt caaatgggtca taacttgtca ctgggaggtc cgattcagct 300
 gcataatata tcgagacgct cgaaattgaa caatggaagc tcttgagcaa ttcanatggt 360
 cataacttgt cactcgaagg tccgattcag gcgcataata tatcgagaca c 411

<210> 12232
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12232

agtctttag caaattcaaa cgacaataac tttttactcg ggtgtccgat tgagttcagt 60
 aatatatcga gacacttgaa atagaaaacg aaaacttgta gcaagtgcac accacaatca 120
 attntaactc gtcgcgaaat atgttgagat gctcgaaatt gaaaaagaaa tttcatagca 180
 aattcaaacg acaataactt ttacacgga tggtcgattg agtcccgtaa tatatcgaga 240
 tgctccaaat tgaaaacgga tgctcaaata atattcagac gacaataact ttctacacgg 300
 atgtctgatt gagtcccgta atatatcgag acgct 335

<210> 12233
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12233

acacgagcca ggttctgatt aaattcatga actgctccat atatgacaca atctcaaact 60
 accactttta atttcttacc ctaccattgt ttagagaaga tttccacaa angcatcgca 120
 cagaatccat gaggtgcacc aagcaggact tcttgtaatg ctgcaatatg accctgcatc 180
 atttatgaga ttatgtcaaa atagcaccta gcttatgtca cttactgtca atctactgcc 240

aattatgtca gcacagtccc taacatatgt cacttactgt cgaattagta cttcagaatt 300
aataacattg acgaatctat ccaactgcta ttgcatgcat gccacatact atataat 357

<210> 12234
<211> 382
<212> DNA
<213> Glycine max

<400> 12234
agcttctact ttgtttcaac tgagaaaagg acgtcaatcg tcatttaccg accatgatcc 60
gcttatttct tcttctctt tctgtctaatt gtcgtaaact aagaataatg gagtataata 120
tacaccacag aaaaaatgga gtatcatatt gataaaaagt aaaacatcgg acggtgatct 180
tgatgcagaa gtctacaatt gataatgaca ggcaaattta tatatataag aaaaggctta 240
tcatatgaaa ttatgcacac ttatgagcta tgaggccttt taatctctaa atgcacacta 300
gcgacactaa cgaaagtagt ggtactattg ctaacatc cgaacatctt ggaaacaatc 360
ggcgattggg taaataaaaa at 382

<210> 12235
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12235

gcttgctage gttatgcaac agaaccacat gttagccatt gtatatgtac caagaagaat 60
taaactctage cacggaccac gagcacaag tggcgtaga gtatgcctga gtgtacgcag 120
aanaggaggc tagaggaagg gtgatcgact cgttacatca agaggcaaca atgtggatgg 180
accgatttgc tcttactttg aacggnggtc aagaacttct ctgattgcta gccaaggcca 240
aagcaatggc ggacacctac tccgcccccg aggagatcca cggacttctc agctattgtc 300
agcatatgat agacttaatg gcccatataa ttagaaaccg ctaggaagtt ngatttgtca 360
ctcagatctt gactagttat aactntctga ataaaatgag tntatcccat gttntactc 420
caaagatcag tgcgaatcan atcactcccg cattntatct ctagcatgca ttc 473

<210> 12236

<211> 358
 <212> DNA
 <213> Glycine max

<400> 12236

tcaagtttta gatgaggaag tgttgaaggg tgaaacttcc tgcttttatt gatgaccaca 60
 gagtgggtact tggagatatg tcgcggggct caggagacct tggggacgtc aagtgggggtg 120
 ctattgcca aaaccaagct tgaccaatcc cgacccaacc cgggcatagt cggtcagtga 180
 gaacctgtga tgtacctaaa caggcgagct cctggcagtc aacagataaa aggaacaaag 240
 accacaaagc aaggaggctt gtggtggctg gccagctgtg aaacttgatt gatatgtgag 300
 atatggtctc tggtaatcga ttaccaatgg tgggtaatcg attaaaggct taaaaatg 358

<210> 12237
 <211> 569
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12237

ccgccttgat gtttgatgca ntgcaagaca cnaagctagg cctcgatcct catgtagacg 60
 gggatcgctt tgcggactgt tgcatagggt cgtcacggca tgccaatgct aggactacac 120
 tatcagtaca cacactagtg cgtgatctca ccacgagcat gcaatgtatc atccatggaa 180
 gaagcagtga acatcagata gaccgactcg tgcgtattaa ggtactgaca tcaactgttg 240
 attatgaata ctcaacaagg agtgtcagcc cgccattaca gaggaaccct aacacatatg 300
 agattaagag tggataagaa ctgctgtctt acacagcaat ggggatccgt tctgctctac 360
 acaacgtctg acagtcactc gtgagctcac tagtctctct ctaattacac aacctatcgc 420
 tgtntgaaga gctgaacgct tgctgctca tagctgtgaa ctaagatagc actagtgcgt 480
 gcttggagtc tatgcgaata tcactacac taactacat agacagcatt cgattgttct 540
 aaatcggatg cgcaatagct caccctcgc 569

<210> 12238
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12238

agctttttgt ttgcttgta aaagccatga cgagtgtggc acaagcagtg accaaaaatg 60
caaccactct gagggacaaa agaaccaat ccttctttgg ctaatttgtc tcatgaggaa 120
ccactgatgc attattcata ccaccaagct ccactttctc tccaccattt tatgaggcca 180
ttgtgcaatt aataacaaac acttaattaa ttgccaaagt gagaaaatga aggtgggtgat 240
gatgggtcag attattatgg agaggacaat gggttattat atagataggg ataccagtga 300
aatggtcana ccatatcatt tggtaagtct aagaagccaa gtgaggattc tttctc 356

<210> 12239

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12239

cactcagctt cgtaattca ccgctcgata ataccggtct catccggatt ttcgtgtata 60
aagntattgt catttcaatg tgctcagagc ttctagtctn caatttgagc gtctcgatat 120
attaccgat tcaatcggac atccgagtaa aaagttattg tcgtttgaat ntgatacgag 180
cttccatttt caatttggat catctctcga taaatcacga cactctgctg ggcatccgag 240
taaaaagtta ttggcgtttg actcttctaa gagtttccat tntcaatntg gagcgtctcc 300
atatattacg ggactcaacc agacatccgt gtataatgtt attggcatta caattctctc 360
agagcttcta gtctcaattt ggagcgtctc gatatattac ccgattcaat cggacatccg 420
agtaanaagt tattgtcgtt tgaatctcta tgagcttccg tntcaatttc gagcgtctcg 480
atatattaca ggactc 496

<210> 12240

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12240

caacaacaca tticccaatg ctaaagtcac ctaacagtac acacacaagt gggatgatcag 60
accaagagca tgcaatcttt aagcattgaa agaagcattg aacataagac acacaatcaa 120

ttagatatta aagtaattac atcaactgtt ctttaaaaat cctcaacaag ggtgtctagc 180
 cagccattac agaaaaaccc taacaataat gagattaaga gtagagaata actactcctt 240
 acacaagaag gtggatccct cctcctcttc tcagcatctc aaaatcactc tgcaactcac 300
 taatctctct ctaattacaa aacctatagc tctctgcaca agctgctcct cttgctagct 360
 ncagagctct ttgtccataa tagacactat ggtgtgctct tgaattctat g 411

<210> 12241
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12241

agtcttaagg atttcccat ttgacatcaa ctgtgaatga agaacaata acttcagcct 60
 aatgattaca aagatgaagt cagtaacttc caattcatta ctaatttaga atcactatct 120
 atattttcag gaaatggata aaagaagaat aatggcataa ccattgtcct gagattaatg 180
 aattttaccaa aacagaatca aatgctggta gaaagtcaac ttgatgagtt acaagtaaaa 240
 cagttttctc ttttaagacca tccatgatgt attcctgccca agtttcanaa ccatgttgga 300
 gtaaagaatg acacataagc acaattatag tatgtgagga aaggaagatg ccattacatt 360
 aaa 363

<210> 12242
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 12242

ttatcttgtc taatactact gcaccagga tgagtgagtt ctgcgaagcc tttctcaaag 60
 ctctaagcc aggttcaaaa aatgaaaatt gcatcatcct cactgtccct acaaaattgg 120
 catgacgtgt catcaacctg cacttgcttc cactgcaaac tctgtcttgt gggaagtcta 180
 tgtctattaa tctccgcaa agaaatctac ttttcttgga acctttatgc tccataatct 240
 gacaaaacat tcttctggg ttattgctgt tgctcctccc attattacct ctgtttttat 300
 cagccaaact aagtatatta tatatata 328

<210> 12243
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 12243

tacaataaca ttctgattct agtattaatc actgtttata ggaatattat ctttgattta 60
 gtggaaacaa aatattctct atttatgtat aattaatgta attatcctat atacgctcgc 120
 atcctctgtg tactctgaca cacggtttta gtctattgac cctctatatt ctctctcatt 180
 ctacagtata tactacgtat tatgcaatcg atagatgaca aaaataatag agaacgaaca 240
 tcacactctg tatgatattc catgtacaat gcttctgttt ctgagctaca atgcacaaag 300
 aaacaatgct cgagtgttc atattaatgc atcccatgtg attccaattt ccaaaacttc 360
 tgaatcttca tgtactcttt attccaaaat gccatcagac attctacaag aactattctg 420
 ttttccaaga t 431

<210> 12244
 <211> 314
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12244

tcaagtttga tattatgaag ngcagaaggg tgaaacttcc tgcttttatt cgttgaccac 60
 agagtggtag ctggagatat gtcgcggggg tcaggagacc ttggggacgt caggtggtgt 120
 gctattgccc aaaaccaaac ttgaccaatc ccgaqccaac ccgggcataa tcagtcagtg 180
 agaacctgtg atgtacctaa acaggcgagc tcctggcagt cgacagataa aaggagcaaa 240
 gaccgcctat caaggatgct cgtgcggtgg ctggccatct gtgaatcttg tgtgatatat 300
 gggctatggc ctct 314

<210> 12245
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12245

tgatgataac aatgatgaca tcagaagatg atgaacaaaa agctcaagtg aatcanagaa 60

catctcacga gaatcaagat caagatcaag attcaagaat caagaattca agactcaaga 120
 agacagcctt cagaaaagta tcaagattca agattcgaga tctcaagaat caaagatcaa 180
 gattaagaat caagaatcaa gactcaagat ctcaagaatc aagatcaaga tgcacgaatc 240
 aagattcgag aatgaagaat agactcaatc aatataagta ttaaaaaggt tntttcaaac 300
 gttgaatagc acacgagttt ttgacagaat ctttaccaaa gagctgttac tctctggtaa 360
 tcgattacca tattggtgta atcgattacc agtagc 396

<210> 12246
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12246

tcaagtttgt ggatagcatc cacagcattg ttttcaccca aggaaatggt ggtcctgaca 60
 ccatcaagaa gatcaccacc attgaaggtc agttaattaa tgttaccttt aatttttttt 120
 atttgtaaga ataaaagaat aaaaaacatg taccaaaatt tacaccaact catgtactta 180
 tatattgttc agctaattga gttagatgct ttgattaata ttatcattaa ttaattcaat 240
 acaagatatt ttcttgaact tatatataaa caaaaataac tattttcaca cagagttata 300
 attaaataaa tgatattgta ataataatat cattaaatag gaatgaagtt acttanatgt 360
 acttatattt atatttgagt gttagataga gtaact 396

<210> 12247
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12247

aaacaaatcc atgtatggtt tanagcaatc cnccacgcaa tggaatagga gacttgatga 60
 atttatggct cacataaagt ttcatagaag tcaactatgat aattgtgtct acttcaaatt 120
 tcctttctaaa gtcgagtttg tgatattgct atttatggtt gatgatattt tgatagcaag 180
 taatagcaag agtaaggctg agaaattgaa atctgagctg agcacggaat ttgaaatgaa 240
 ggatttggga gcagctaaga ggatattgng aatagaaatc aaacgggata gaacaaagaa 300

attgtggatc t

311

<210> 12248
<211> 391
<212> DNA
<213> Glycine max

<400> 12248

agtttacggc gggagaaata aaagaaagga agcaaaaaag ctaagcaaaa ccaccgaaaa 60
gcaacatcgc cacctatatg tcgctgtctc acaacaagtc taagtgtgtc tctgagagag 120
agagacatct ttatcatcat ttttaaacac accaacaaca catggtgcac caccaaccat 180
tctctctctc tctctctctg ggttttcttg tttttattgg gtctctcaat gagagattgt 240
aatggaaaag gatcatcaaa gtctgtccaa ggaacatagt gactcttcag tgtgttgctg 300
gcttatacga gtagtactta ttcacatctt aactccttca attctcttct ccaatgatta 360
actccttctt caattctctt ctccaatgat t 391

<210> 12249
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12249

aatgaccttt attctttgaa gagtcgtggg aacccttga ttaccattta taaaattgag 60
gacagcaatg caataaaatg tacctttatt tatattctca tgttgattac tctaccaaa 120
nagtatgaca aacctaaggt gtcccatatg agcacctacg tctgtattga aacaaaacat 180
acgaacaaac ctacctaatz agtccctatz tacacaaatc atgaagatzg tgagtgcatz 240
agtgattgta cacaagacgg ttgcaccact caacacattc atcataccac ctatt 300
caccaacata gcacaaggat ctaagatctt acgagccaga ccctca caaactctca 360
tacttgatga ataacat 377

<210> 12250
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 12250

agcttctcat agatgtaatg tgctaaaaga gagggaaaag gaagaaacaa aggtaacatc 60
 tcttaccaag gagtctagct ccgttggtta aattaggtgt tgagtgtact aaattttttg 120
 atatcgtggt caatatttac cgatattaag aaagtagcat ctcaagtaaa ccaaatagaa 180
 gaaacagaaa aagagataat. attaattata ggtgactttt gtgtcttaaa gatgtttaat 240
 ttgtgttatg ttaatagcgt gtagtagcta tgcaaagagt gtgtttcttg agtgccctgtg 300
 tgttttttcc ctactatgat ccttcttacg ttttgagtgg ctttcagcca gtngtgaata 360
 aaactatgca acttttagtag tatctactaa atatagt 397

<210> 12251
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12251

aacttccttc agacaaggct cgatatatta agttaactta ttctanaaan anaatgccat 60
 atgtttgctt atacttattc aaggcacaag gtcacaatc tttttntgtc tagaattgga 120
 tgtgtgtgtg aaggaagcag ttgctcatta cgtcaagtca tcttcaatta gtttcgggaa 180
 tagaacagaa caactatctt tattagaaaa agattattga acaaatagtt ataatgtgat 240
 taaattatta tttttataaa gcgcgtgatt ntgaaatcaa actttaacta accgcagctn 300
 ttactctgta tgactctccg tcctctttca tactcttgat tacatacctc tntgaatgat 360
 tccaatgtgt aataagtagt caacaca 387

<210> 12252
 <211> 353
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12252

agcttaaagg atgtgaacaa attagcatgg gcagaaatgt ctccgcattg attggtaaatt 60
 ctgttcccca aattcctgaa aaatgtaaag atccaggtac attcagcata cttgttatta 120
 tagggaatag taagtttgac aatgccatgc tagatttagg agcttctgtt agagctatgc 180

ctctgtctat ttttaattct ctatctctag gtcccttgca gtcaactgat gtggtaattc 240
 atttagctaa tagaagtgct gcctatcctg ttggtttcat agaagatgtc ttagttagag 300
 ttggtgaact gattctccct gttgattttt atattntgaa tatggaggat ggg 353

<210> 12253
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12253

cggtgacaaa ggcatatggg aggccttact tgcataatgag gtgtttctat gtgaacttct 60
 ccaccttatt agttgtaatt tctcacagtg gtcttgccctc gatcccttgn gtgaagtaat 120
 cgattgccat tagtaggtat ttaactgttc ttggggccctt taacagtggg cccagtatgt 180
 tcattcctca catggcaaag ggccatgagg agctcacact atggagattg tccggagggg 240
 tgcataatga gcttgcaaac tcatggcatc atctgcatct ctttgtaaag tcaaggggtg 300
 ttgccctgaa tgttgggccag tagtagccaa cacgcaccac ctttggtgaa gggatcgctc 360
 ccagtatgga gatcgaatat tccatcgtag agtcctctca tgacataatt tgctag 416

<210> 12254
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12254

agttttgtgc aactgaagca tgggaagaag acattctatg ctaggcatca ttgatttctc 60
 aaagaatatc acccaaatcg ttgggtgaaa aaaactttta atggaagata ggagtttgga 120
 tttgccccga taccaataac agaaaaaaaa atttatgagc gaggaggagga aatatgtact 180
 atcttttgaa agacccaaaa gaaggatgca aatgagaaaa acaaatggaa aaagaggtct 240
 atattctttg atcttccata ttggtttgct ctanatgtta gatattgtat tgacatgatg 300
 catgtggaga aaaatgtatg tgatagttta atcagcacac ttcttaacat taaaggcaag 360
 acaaatgatg gtttgaatgc tcgtc 385

<210> 12255
 <211> 308
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12255

tcttggatgc ctaagtgtgg accctctagg gcaatcctcc atttccattt attttgagcc 60
 ccatgaatgt catggcctag cgtagctcat gtgtactaca ccttcgagta tggagccccg 120
 cgaatgtcat cgtctagctc tattagccaa ttctccattc cacactttta tttggagccc 180
 catgagtgtc attgcctagc gctgtacatg tgtcctccac cttcaagtct ggagctatgc 240
 ttcatgaatg cctaagngtg aaccctcttg tgcaatgctc cattctccac ttttattctg 300
 agcctcat 308

<210> 12256
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12256

agtctttttt ctgtcccgag actccatggc tgtaaagctg cgaatacaat catgatgatc 60
 tgattcatgt tgaaggccta tagatttcgc aagaagtcac tgctgcatag cctattccaa 120
 gtcttcaaga gagttttctt ctgtattctt gaaccctca aaagcctcta gagtctgtt 180
 gtttgggcct ttacaagagg aatcatttaa accaccaga cccttgctct cccttagcga 240
 gatattcttct tctactacag gctcaagagg ggcagcttta gatgggccat gtctttgtct 300
 aacatagact ctagagaaca aatcatagct cccttntgat gtctgagccg aagctgggtg 360
 ggtttccttt gtacaccctt ccattctcat tattg 395

<210> 12257
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12257

gcgagacaca ctatcgagcg actgacanat acaagttaat atatttggtt gataaacacg 60

aaaaaaggat acttagaagg tgcataaacc acaccctaac tttcgtcatc caccgaacat 120
 taatgggacc caatatctag tatattacat atcatatagt gacactatat aaaacgactt 180
 aagtttttct aacgatcgtt ttcaaacgca atagattccc gtgtcattca atgctttaag 240
 caaaagagaa gacaatatag acaaaatata aataaaaata tgcactacat attagcggca 300
 ggcgaaatga attatgcttt caagtataaa ttatgacaga tttcaagtat aaattatgct 360
 ttcaagtga aattatatat tatatgtaat attatgactc tcaattgaga atctgtattt 420
 caacacggat tacttaatag tatca 445

<210> 12258
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12258

agtttgacaa accagcttgg ttaactaatg ataataataa taataacttt attttatcaa 60
 atcttatctt atccagattt tattctatct agattttatt ttattcaaat tttatttcgt 120
 ccagatttta tttcatcaca tcttatctta tcttgccag attttatggt atttcgttta 180
 taagtttgga cttaaaatag atttgtaagt tttggggctg aggacctata taacagcacc 240
 aaagtttttag gttagggagt ttttttccgg agaggagaat aattctagga ttttagaatt 300
 tcagttttta ttactgttca tgcacactgt tcatgtagaa taaaattcat tttttgcaaa 360
 tcctctctaa tccatacatt ttntaatatt at 392

<210> 12259
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12259

taagtctaga ttaatntaat tgcactatc catggcaacc tctttgatat tttttttttt 60
 cctttttaag aggaaacaga tgcagacact gacgaatata aatcacanaa ccgtgaagaa 120
 aattcacaaa aacgctaaaa tttcataagt tctcaacca cattcccaa accccacaag 180
 ttttcttcat tntctcagca aacaagcagg aaaaaaaaaa ggcaaatcag gaggattgca 240

cattatgcac aaagtttagat ctgagaaaaa aaaaaaccca aatgcatgca aaatagaaaa 300
aagaaataaa caagttgaat caacaatgat gaaattgaaa aataaaatta anaaanaaaa 360
agtagaaaga gaaggtggaa aattgaaggt tacc 394

<210> 12260
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12260

gatcagctcg accgggatcc ttaatcgact gagctgcagc tttgtttttc tttatcgccg 60
ccaccatcgg gttagacgga tatcttaata ttagtactnt gattttcagc cttgtatttt 120
ggctatatta gtatggtatt tgaacaattg actatttcct tatttgcatg gcatgtttgg 180
accaatatta agtatgttat ttgactatgt ggagtttata attaatctat gcatggntgg 240
ttgattcatg gtttcatggc tcttgcttct tgcttcatga tttggttgat attgtttacg 300
aacattgtat ggatgcttaa attaaattta tttgatacgc attttggtt tttgttgatg 360
ccaaagaggg agagaaatga gattaaatca agcattcaca tcaataatca acttattgtt 420
aagatatg 428

<210> 12261
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12261

tctgtcaact aactaatatt tctaattgca agttcacatt cttgttcttt ctttgtctaa 60
catacactact tgctcaaact catgaaaaga aacacaaaact ccatcataat catgcattca 120
aaccaaaatc aattcatata ccaattntca caaaaagagt ttcactgcat aatcatccaa 180
gtcaagtcaa actgttctat atgcttcana ataagcatat caactaacca taaacaaaaa 240
acaacaatgc atataaacac taaccaaact cactaaaaac attgtactaa aactataatc 300
ataataataa caatccanaa agcatcatca ggaatntaaa attcctgtga ctggctctaa 360
gtgtcctgtg tctgaacatc ctctcattt gacagatgaa gtactggagt agctggagga 420

gaagtgttca gagtcangac tagtgtgatc aggtcctcan gtatctctag gat

473

<210> 12262
<211> 342
<212> DNA
<213> Glycine max

<400> 12262

agctttcatc accgtcgtgg tgctttcatc ggtgtcatct tctcatgacc atcgtgtcac 60
tgtcaatgtc gaagtgtgaa ctctccacc acaagactct catcattaga agctatgaac 120
ccatctcttg cattctcatg tctcttttgt tgaattatga tgggatcaga gatgggtgtgg 180
ttgttgatga cattggcttt acggtgcggc ggaaggagcg ttagggtttg tggttaagat 240
tttgaaggaa aatgggctca aaaccatatt ttgggctcaa gagtctatta catgtagaga 300
aagtgtaca tcctatgatg ttgtcctaa gacaattacc tc 342

<210> 12263
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12263

cactcaagct ntctcttttg tgcaactatc tcctcctctt tttcaggtgt agaatgaagc 60
ttgtcttgtt ttggtgcagg tgctgctact ggtggagaca cttgaatttg gattccagac 120
ctcaaggtga tggcactcac attnttcaga ttctgcacag tttgtcaagg atatttgtca 180
gaattttgng actgagcttg tgtcaattga gtagccatct gccccatctg atttgtcaaa 240
ctctgaataa aggctcttgt ctcttactga cattgcatat tctggatggg catttgctc 300
actaactctt ctaaggaagg ttgaggaaga gcctcagttg cttggtggat ttgttgagac 360
tgccgctgta ttggaggagg aacatatggc ttgcttgtag cagcaacatt ct 412

<210> 12264
<211> 380
<212> DNA
<213> Glycine max

<400> 12264

agcttatgct tttaacgaaa ggttcatcaa gtcaagttaa agtatggaag taaccatcct 60

gcaaaaaatt ggggcaaaag atagatcgag ttacatcgct gctttgtcta ttgccaaaca 120
catttaggac tgttgatgtc cttgttactt ccagtttcac cttgacaaag atgtaatgga 180
ccatgttaaa aatctaaatt gattaaaccc catgtcatgc gtaaaaattc gcaatacttc 240
aactgtgcat cattcacata catacatgct tttcattggt tgcattgttc attgcattct 300
ttccttgaca aaaaaaagat aaaaacgaac ttaatcattg ttatcacaaa gaaaagaaca 360
tgctttacgg tacccttata 380

<210> 12265
<211> 315
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12265

tcctaccccg caagggcatt ggatagaana ctccaagtag atagcgccac agatgcatga 60
gaaggcccta tggttcttat gagccttagg gtatatatcg ggcccatggg ctaagtatga 120
gcctacttat ctgttgaaat attacattaa cgcttcatta ttattgggcc tgtgatttat 180
ggctccataa tgtacgtagg gtaccctaga aatatatgat ttttcagccc ttgtatttta 240
cggtacctat actagatctt gtattatggg tagttgtgta gatttacatg aactaagtgg 300
atatngatg tgtgt 315

<210> 12266
<211> 354
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12266

tctagcttct atgagaaaaa ctacttgag aagctagagc ttagctacac acacccttct 60
aataactaag agcacctcct tgagaagctt tcttgagaag attcctaacg aagctagagc 120
ttagctacaa atgggggaaa agaaagaggg agagaaagag aaacgagggg ggatgatatt 180
gaaggaagaa gaaaggaaga gaagttgaac tttgagttgt gtctcacaag actctgattc 240
atcaaagtta cgacaagtgg tacacgtgct tctatttata gactaggtag cttccttgag 300
aagcttcttt gagaanaact tncctgagaa gctagagctt agctacgcac accc 354

<210> 12267
 <211> 503
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12267

cctctctatt ggggaatcac aactgatgga tatgtagcat ttgttatgat ttagttggta 60
 aggttcctct ctaagagcaa aattataatc taagcaagtt cggttaggct ctcaagtgg 120
 tgacaagtct cgtttaagtg gtcttttttg ccttggttaa caacaaaatc gagtgtagg 180
 tgcaaaaatt ggaaagctcc actacacata atagcagtat tatttatttc aatatttgtt 240
 tttgcattca tggttagttt gcttatntg tctgtgtggc tctcttcatt tatgaactnt 300
 gagacttata tgttatgata tatttcattc atttgatgcg atgaactatc angtggaagg 360
 gtcagcagtc cttgcaggca cagagtagaa gatccatctt caaatagagt accgtgtgat 420
 gcattaatgg agtaatgtgt ttatgtgctt gtgacagtaa gtcttgcatg canggccatg 480
 taaatacctt taatgataac tat 503

<210> 12268
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 12268

tcaagcttga ggaactcata caaacttgag gcaatttata cgcttaccat ggctagcatg 60
 atcacaccta tatatctata attacctatc cccactaatt acgtgaatct atctcttctc 120
 attgaaatct gaactaataa atttaaatac ctttgtaggt atctataaat acaaacagtt 180
 gcagctatac cccctttacc tctttctttc ttcttatacc ctaagcacta ttcattggacc 240
 gtatctgcta tattcagcta ctttcttatt gctagagaga agctaatagca atcctacccc 300
 gaaaagcatt gatagaagac tccaagaata ttggactata gctgttgaaa aaagccctac 360
 ggtcttcata acc 373

<210> 12269
 <211> 458
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12269

gctcgcccag gcgagcaagg ttgcttctc cagaagaaac tacctttctg gaggaatctt 60
tggagggccc aagtggacct ggttgctatt tacaccccc tttttactaa atgcaccnc 120
ttatatattn ttctgtaatt cttntccgt aacgttacga aactttacga atttcgtaac 180
gatacttatt ttcctttccg caaggttacg aatccttacg gatttatgta tttactcttt 240
ntggctttca aagaagttac ggaaactcac ggattgcgca taaacacctc ttttcgattt 300
ccgccacatt acggaatttc acggattacg caagcctgct tccttttgga tttctgagac 360
gtctcgggac ttcatttatt gcatgtcatc aatttataat cctcggacga aattaaggta 420
tgacagttgc ccctctttac ttacctctca tcggagat 458

<210> 12270

<211> 174

<212> DNA

<213> Glycine max

<400> 12270

agcttctatt gatgttccaa gtgattcttc tgctgcagta attgatgact gaagagcctt 60
acctgagatg ttgaacatat aacaaatata ttgcgatata ttctacacac aagattgttg 120
agacgataca tgattcagca ataggggagg acaggcgccc ggcacccttg ttcc 174

<210> 12271

<211> 357

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12271

tagtggttga gacttagttt gtaatgttat tctgcccata gatagtaagg atcgagcctt 60
gngcaaatgg tccacacatt gtgaaggacc gtttaaaata attcagatct attcgaatgg 120
tgcttatgag ttagaggagc taaccctca gaaacgtact ttgagcataa atggtaagta 180
tctgaaaaaa tataaaccaa cactgctcga agttaaaata agcatagaat aagagaaata 240
cgggaaacat aaaaatggcg ataacagtaa attgccacga aagggcatgt gtcaatatta 300

catcgaatag tataatcgaa atacagaatt cgaaataaag aaatcataag ttctact 357

<210> 12272
<211> 353
<212> DNA
<213> Glycine max

<400> 12272

tctatcttga ataaaaactg ttcgagaaaa tgtccaacta aaaagtgaaa taaaggaaga 60
aagagaacga tatgaggaaa acaagaaaaa agacaggaga agattgagga agtgaaagac 120
aaaaatgaag gagtgtagcg gcctcgtagg aacatgactg ataaagaaga aaggaggtgg 180
ctctagcagt gcaaccagcg agcaagaggc aaaatggtgt cgtttgggta gagaaatgcg 240
gaagtgtgcg gagagagggg ttctagaagg gtcaaggaga tgcatacagt cctaacaacg 300
tcactctcaa acgcagaagc ataataaaca aaggttgtgg aaatatcata aat 353

<210> 12273
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12273

cgcggggtctg tgagacanag gtcaagtgtt cgcgatatgc gatgatgatg ttccgagtac 60
tntggatttg gtacgaccat gccctcctga tttccagctg ggaaattggc gaggaggagga 120
acgccccggc atttacgcaa cgagcataat gtaaaccctt acggttntaa aagctctata 180
gttgggccta ggctntagag ttnttccttt tgtaaggct ttgtgtcttt tgttnttgaa 240
tttataatac aaggatcttt cttcatctgt tctggtctc taccattct cattcatttg 300
catgtttact tctttttctg aaacggcaga tccgatgacg agtccnccga aggtactaat 360
acctgngacc cgcctatcga cttcgagcaa gaaatgaatc aaac 404

<210> 12274
<211> 385
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12274

agcttggttca tagaagtaat aactaaatgg gaattgtaga aacacctacc aaacgctgtc 60
 aaccaattaa aaaaaaaatt gtggacaaat atggaagcca ttattctgac tagcttccag 120
 cttctaataga aagaattgaa cgcgcgttca caaatcatc atcaactgga atgttgctgt 180
 atcctctacg cattattggt ggggtttaagt ttgcagatc ctcctcaa atccactgat 240
 atccacaact gcacacctcc aagtgcacac cttgagagtt gtcgaccatg gcatgcattn 300
 tgatgccata aagatcaagc attntctcta ttttaagata ggaaaaaac tctcccctag 360
 tcaaataagag taaccacaag tgatg 385

<210> 12275
 <211> 567
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12275

cgggccttgat gaatcattgc aaggcgaact atgatactaa gctagaagga agcttaatgg 60
 aggaagagaa tgagagagcg gcgttggtggg tggctgtggc ancncncgc gaencnngct 120
 ggagggttac ctctcttctg tcgccccct gcccgtcnc gcgctcntgt tctcacgtgc 180
 cttctggttt ccttttctcc ctctgctttt gtgacctcc ttgtcttccg tcgttgcttc 240
 ttccgttgtc tcccttctg cgccccccc tccatgtctc ccttccttctn tgggtgtgtgc 300
 ctctgcagcc ctcgattctt tacactctct catatagact acctaaacac atcttgata 360
 acgctagtgt cacataccac aacactcacg gttaattctca gtccccgacc gtcacatact 420
 taccctatta tgtaacacct ctccactc ttaattgtgg atggttaagct tctctgcgta 480
 ccaccattcc tatacaatat cctcacttg caagtctctt atgtttaatc gttcataacc 540
 tattctcact acacatgaat cttaacg 567

<210> 12276
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12276

agcttgccgc ccagctcgcc caggcgagct cagctcgccc aggcgagcag ggttgcttcc 60

tccagaagca accgccttct ggaggaatct tctggagggc ccaaattggc ctgggtgcta 120
 tttgcacccc catttttact aagtacaccc cctctgctg ttttttggtg attctttttt 180
 cgtaaagtta cggaaactta cgaatttcgt aacgatactt gttttctttc cgtaatgtta 240
 cggaaacctg cggattacat aatcatcccc tttttgactt acggaatggt acggaacctc 300
 acttaattat gcaacgatgc ttccatttga tttccggtgt gtcacggaaa cttacngatt 360
 gtgcataata tttttttt 377

<210> 12277
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12277

tctagccaat ggacatatct ccncatcctc tctaccagtt ttctatctat attntaagca 60
 cacatatatc tcanaacatc attattgaac cctanatcaa catgggcagt tntgcttaca 120
 ttaaacaatgt caagtttagc ataattacaa taatttcctt cacaaacaac taccctaaag 180
 caataaccta gtagaactac ccattatagc tcccaagaac ccaacacctg ttggatcgag 240
 tggcctcaaa ataattaaga aggggggggtt gaattaatta ttcctaaacc tttactaatt 300
 aaaaatttac tcttttaagg cttttactta tgttggttaag ggaataagga gtagaagaga 360
 aacttaacag aaagtaaaag cgggaattaa atgcatagcg ganagtaaaa tattaaggaa 420
 gaagganaca aacacacaag aagttttaat actgggttcgg aacaacccgt gcctaca 477

<210> 12278
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 12278

agcttatata atcgatctta gcatctaata aattggcatc cttcaaccat acattcggtta 60
 aggagtgttc tattttcttc aactcggatt caattggatc ttctaaagcc acactttctt 120
 cttttttaga gcatggtcta ttttctaaca tccttttttt gccttctctt gcatctatca 180
 tttcaactag agtacgggtg gccgaataaa ccaaattggc tgatttttct gttggggctg 240
 gtggatactt tctgaaagct tgggtccaatg caaggactac ttgacttacc aatgtcttgc 300

cttgcacct agctttcaga tatgcaatca tggetagggt ctacttcatt ttggatcatag 360
cct 363

<210> 12279
<211> 326
<212> DNA
<213> Glycine max

<400> 12279

gacattcata tatcaagtat cataatatta tcataaaaca taagaacata aaatatcatt 60
attataattc aagtcattta aacacatgca taataattaa tctacacaca cacacagtta 120
gacaaagtac ataaattctc tgtaaacata cagtatttga caatttaaaa tgtaatatta 180
gaataacatt atccaaagta agcaattctt aaaaaaatta tcatgtcttt ataattctcca 240
ctaactttaa tagtaacttt aatagatgaa atgtagctgt attagcagat ggataatcat 300
gcatattaat gacttgaata gggata 326

<210> 12280
<211> 384
<212> DNA
<213> Glycine max

<400> 12280

agcttgcata tagacgttgc aacttgcaag ctctcacatc acctttctcaa ctacacaaaac 60
gttatcacat taaccacagc atcgcatgcc atcaccatat tttctagttt gtgtctctaa 120
ttctgtcttt ccatattggc ctttgtcatt tcaacgcctc tctctctctc tgatcagctt 180
atgtttatgt ttatgtgttc tgcccaattt ttgttctgct cgtggcatac taattttgga 240
cctcattagt taggctcatg aaaaaagcaa gctacatgtt atttccacct aacatttttg 300
ctgtttccac cccaaatttt ctttgaatc cttgttctta gatacagaac ttatatattg 360
caaggcgcac acccaaaacc ttat 384

<210> 12281
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12281

gtcttgtcta tctgtctct ctnggtctct tgaatacact tcttgtcaac ttgatgttnt 60
aataccaatc ttctaactgc tgaccacttc actcctctcc ccagccctct gatgttatat 120
gagataatat tcatgatgag atgtttctct ttcccaatgc ttcagcttcc tttctatctc 180
tgatctccat tgttgtgatt ntgtcgatga ttgttgattg ctcttccct gatgtcatcc 240
ccaggattnt agccatttcc cattgagcgc tggcctcttc tctaatagtaa ttattacatg 300
gaatcttggg ttgagatgcc cttgactntt ctgattcagt ttcgggctcc cttngcctg 360
agtctgggag agcgtgttgt ccatcattcc cctgtttgc tgcttccatt tcctttatag 420
cctgagtc aa cttatg 436

<210> 12282

<211> 360

<212> DNA

<213> Glycine max

<400> 12282

ttatcttggc tgttacaaaa tcagagacat gagtcatact ccaaactaa aagaacattc 60
tatcttgata tatctcgatg aacaattgcg agtgaacaga cgtgatgcat aaaaaaaaaat 120
taaaccacaa taaaagttaa taacacaata aaaaaatata tatttcaatt ttttcaatgt 180
catccatgag ctcttcaata tcacgtgtcc atggagagga tcaacaccaa ttgtgtataa 240
accaatgctt caattgtctt ttgaggagag agctttcata acaattaagc actttacctc 300
atgtctata aggagactct gacagacca caatcacaac atataatgat gatcgaaaca 360

<210> 12283

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12283

gatcctgcta ttctctctat ctacgggtat gcgtganatt tccatactac gtcaaagtca 60
tggccaaaag atcgacgttt ggctcaacaa gcctgccaat ggcgggacat ggtgtatgtc 120
gggatatctg tttagcaaat ggctcagaaa taagggaatg cccaaatcat ttccatgaca 180
cacatatcat gataattaga aattcatgca taattaatca tagcacatat ccatgtggac 240

actcaaatat aaggctttgt ggccatgcaa acactaacca tgtgtttgga tgaggaattt 300
 acaaattgct aggaagatca tatacacaac attgtgattg ccttgactta aattcctttc 360
 at 362

<210> 12284
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 12284

agcttaacat atttagaat caagtgatca tgtattccga aatatatggg gagtaaacgg 60
 atgcacattt tatctatata caattgttcg ttgcttgctc gaatcttgat ttcagggtatt 120
 gtattgtcat catcaaaaag ggggagattg tacatgcaat cggctttgat gttttgatga 180
 tgatcatgat gatgtgctgc aaatgggctt ttcaagatta aaattcaaga caatacttca 240
 agattacaag tcacaacatt aagatgatca ctagaatatt aggaagggaa ttctaattg 300
 aattagcaaa ggctcgcca agtgatttaa aataaaaagt gtttcttaaa ggggttactc 360
 tctggtaatc gattacc 377

<210> 12285
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12285

gtggtaatca gagcacaaga gttcaagta tgtgctcctt atactctcca ttaatttntg 60
 ctttaccttc tcttcatta gtagttctt catttttctc catgtatctc ctcacatgtc 120
 ttgtgataaa tgtttntaac atgattgttt agagtttcca ccgattaaac ttgctataga 180
 agctagattt gattntatat gttcanatt tcttggtctt gttcttgaac catgaattgt 240
 gttgagtta agttcctttg agttntgtct tgggtatttt tttggctgan acctannacc 300
 atagaattct taaaaaatat taaagtagaa gaaaacctca naaatctaga gtgacttggt 360
 cacctattgt agttntgtca tagaagtcac gtctagtcac gaaacttgct acataagatt 420
 tcttatgttg tgctgaatt ttttttcttg gttctttgtc taactcattt gntcatgagt 480

<210> 12286
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12286

agctttgaga aaattcaaac gacaataact ttttactcgg atgtctgatt gagtcccga 60
 atatatcgag acgctcgaaa ttgaataccg aagcgctaag caaattcaaa cgacaaaaaac 120
 tttttactcg gatgtctgat tgagtcccg aatatatcga aaagctcgaa tgtgaatgta 180
 gaagctctga gcaaattcaa acaacaataa ctttttactc ggatgtctga ttgagtcccg 240
 taatatatcg agatgctcga aatggaatac cgaagctctg agcaaattca aacgataata 300
 actttntact cggatgtccg attgagtccc gtaatatatc ggaacgctcg aaattgaatg 360
 tagaagctct gagcaaattc aacgacaata acttttac 398

<210> 12287
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12287

gagaataaca acacaaacac cattcaagta tgaaaacggt actgatattc cttgggcagt 60
 ggattggagg cagaaagggt atgttacttc aatcaaggag taccatcatc agtgctacca 120
 tgaccaataa cagtaacacc atgggtctagt tgactcccac attgtccagt gcanaaaccc 180
 cacttgagaa gaattggaaa gaagatccgc cggcatcaat ggtaatcgac actggttggt 240
 ttgcaacagt aacaccaact gtctggatga ttgatatatg tagctgagta tgtgtatcta 300
 aagcttacac atatatgtta gaatatctga ttcccataag acatatttga ttatcatcct 360
 atatagatgg ttaatgttat tctatcac 388

<210> 12288
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 12288

agcttcgtgg gaaaccagtg catggagggg aaggttgat agtgaagttg atctgtggga 60
 ttcacaatca tgaattggcc aagtccttag ttggacatcc atacgggtggg cgattgacta 120
 aggatgaaaa gaaaattatt gctgatatga caaagtcgat ggtgaaacca aaaaacatct 180
 tgctaacggt gaaggaacat aatgccaca gttgcaccac gataaagcaa atttacaatg 240
 caagaagtgc atatcggttct tcaataagag gagctgatac cgaaatacaa catctgatga 300
 agcttcttga acatgatcaa tacattcatt ggcatagatt gaaagatgaa gttgtggcgc 360
 gtgatctgtt ttggtgtcac ccagatgctg 390

<210> 12289
 <211> 492
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12289

gctttcatat attacgggac tcaatcggac ttctattaa naagttattg tagtttgaat 60
 gtgctcaggg cttcggtatt ccatttcgag cgtctcgata tattacggga ctcaatcgga 120
 catccgagta aaaagttatt gttgtttgaa tgtgctcaga gcttcggtat tccatttcga 180
 gcatctcgat atattacggg actcaatcag acatccgagt aaaaagttat tgtagtttga 240
 atttgctcac agcttcggca ttccatttcg agcgtctcga tgtattacgg gactcaatca 300
 gacatccgag taanaagtta ttgtcgtttg aatttgctca gagcttctac attcaattgc 360
 gagctnttcg atatattacg ggactcaatc agacatccga gtaanaaagt atgggtcgtt 420
 gcaattgctc agagcttcag tattccattt agagcgtctc gatatattac aggactcant 480
 cagacatccg ag 492

<210> 12290
 <211> 367
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12290

agtttatgtc ccaagctatt caaagtcttg actagcaaat ttatttgtct aaattattgg 60
 gatatgatta tgttatacag tacaagtcaa gatctcataa tatcgtggct gatgcattat 120

cccgaattgc ggcaccggat gaagcacagt tttactccct atcagtgccct atgtttgtct 180
tcttgatca attccgggat actctnttaa aagacaccca atacacaaca ctattggatg 240
aggttcgtca aaatcccgcc aaacatcctg aactcaaggt ttatcacgag cttctctttc 300
gaaatggaag gatatggttg tcgttcgcaa cacattttgc tagcttacta ttgcaggaag 360
ttcactc 367

<210> 12291
<211> 488
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12291

ctacaacctt ttcttcccct ttggcaacat cttagagtca atgttctcgg anatcaacac 60
agttataaca atggagtagc aagatataag tatcagagta ttaaatccaa taagccaaac 120
tcataatcaa gaaaataatc aaaccagaat tcaaataaca tacaatgtca acaaccacaa 180
aatatccaag actgaaacac aagagaaata agcaaagtac ttagcataat aatgtaaatt 240
ctaagaaact aaaagccaaa atacacggct tataaaagat aaataagcag aatctaaaat 300
ctaagaagac ggaggaggtg gtggaagatc aaaactctga cgaatgtatc cgacatcctc 360
ttcaagctgt gtaagacgaa tgtccatacc ggcaaagcgt gaatctaacg agtcanagcg 420
gtcaccaaca tacgaacgaa gacnccgtaa ttcggagagg acttcattca tgagtgcgga 480
atcttcac 488

<210> 12292
<211> 294
<212> DNA
<213> Glycine max

<400> 12292

agtttctaata cagttgttgc ttttgaatgg acgattgttg ctgttgatga atattgttag 60
tttggaacac tctctgggga ttcagaagtt ggggtgtgagc ttgatcgtgt ggtaaagttt 120
gatttgtcaa gttccttggg ttgtgagtga tatcacccaa ctgctgcagc ggctgtgtga 180
ctgctcccaa tgcactggat gggcatggtg gcttctgaat gtgatcgagt tgctgggaag 240
tctgaagtat attctgagct tcgacagata cattgtttga ttgagagatt tgtg 294

<210> 12293
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12293

gctcgcccag gcgagcaggg ttgcttctc cagtagcaac tgcctttctg gaggaatctt 60
 ctggagggcc caagtgggcc tggttgctat ttgcaccccc attnttacta agtacacccc 120
 ctgctttntt tggtgattct ttnttcgtaa agttacggaa acttacgaat ttcgtaacga 180
 tacttgtttt ctttccgtaa tgttacagaa ccttgcggaat tacataatca tcccttgttt 240
 gacttacgga atgttacgga acctcactaa ttgtgcaacg atgcttccat ttgatttccg 300
 gtgtgtcacg gaaccttatg gattgtgcat caatattctc tttagttctc cggcatgtnc 360
 cggaatttca caaattgcct aatgatgggt gccaaagtacc tcacaaggac caaac 415

<210> 12294
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12294

agtttctata taagctgaac cattttatca ataaacacaa gttgagtttt attcagaaaa 60
 ttagagttta tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
 gaacaccctg gctgtatcaa aggactttca caacctttgt gtggtgcct cgctggaaag 180
 agtgattctt tccttctat catctccacc cttgttcttt caaaccataa ttccagaaaa 240
 tccacctctg cccaaaatta tcttgtgacc ataactccca ttttgcacac tcaaattaag 300
 tgattcttga gcctaaatta aatttcaaaa cgagaccttt cacctcgttg tggaatcacc 360
 tcatnnggag cctg 375

<210> 12295
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 12295

ctggagctca tataccctct tgttcttggt ctgatacgta taatatttca aaaaattgct 60
gtctgggttt ctgcttgcat atcctgtggt taactggcat gttcttttct tctgtaactg 120
caaaaacata tttacttggt gagtggcttc taactttaat aatctataac aattcttaat 180
tatacgaatg acgcccattg ctgattgcat gaacaaatga attgcaatcc ttccaatcct 240
ttgaatcact tctcatgcta tcatgcatga ggaatatagt gctatcttat tcatatgccg 300
acatatataa attcttgacc cagtcgagca tgatattaac ttactatcta t 351

<210> 12296
<211> 274
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12296

tcaagtttta catatatgag aaaacctagg cttgtatccg tttagaatta ttactttcaa 60
gactaatgga ggctcataat agaatacagga ccaatctaag ttattaatac attctgcgtg 120
aactaactta ggatacaaag tgggttttta caaactaaat atatatacat tagaagcgaa 180
agaactaatc ttataccata tttgttcttt ataaattaaa ttgcactagt agatcggtac 240
tatttaaaat cngaaggcct acttctaact aatt 274

<210> 12297
<211> 491
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12297

gcttgagntc tctccacacc atttttttta ttttaattctt ttatattaac acttgatgta 60
natcacacag ctcagctagt tgtataggaa tactctntca agacaataat agtttatcta 120
cttgatcatt ccagaatttt caataatggt caaaattcaa tggccaattg atggttctat 180
ccgaatatcc taccgccaat tctaagttta agccgtctaa atttcaaagg gaatctaaat 240
cttccacatc tccacaaacc angatcctgc aatctcttan aggactctgt cctagtcaac 300
ttgcgcttgc cactgttatc atttctataa tgagagccag aatctccttc cacgtaacta 360
cccttngagg ctaactcact ntctctctcg gntccagcan aagggatgga tccaatttgc 420

ttgatcatgg cccaaggatc ctggaattca tgctcagaat cactnntcca canagatatg 480
gacttgataa t 491

<210> 12298
<211> 204
<212> DNA
<213> Glycine max

<400> 12298

caccaccatt cacgaatgta catcctatgg tactttcttct gtccaaaaca tctccacacc 60
aattggagtc ggaataagcc acaagatgtg gtctaccctt ctgatcgtga tgtaagaata 120
caacgcccatt attcactgta cctccaagat atctcacaca tctcttagtg tgctaccatg 180
tgagagtgcc taggatcact catg 204

<210> 12299
<211> 329
<212> DNA
<213> Glycine max

<400> 12299

agcttgtctt ttcgtttatg cgagacagag accaacaatgc tagctatcat cgccaagtac 60
caagaagagt taggtctagc cacggcccac gagcgtaggg tcgcggacga gtatgcccaa 120
gtatacgcgg aataagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180
atgtggatgg atcggtttgc tcttaccttg aacgggagtc aagaacttcc ccgattgtta 240
gccaaaggcca aggcgatggc ggacacctac tccgcccccg aagatatcca tgggcttcta 300
ggctattgtc aacatatgat agacttaat 329

<210> 12300
<211> 519
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12300

gctatctatg cttttacctc aaattttatt ttggtgaatt tatctatcaa agcattcacc 60
ctcaacattt aagagacttg tgagttntac cttctatcaa tttacacata acataatttc 120

actttntaac cccaattntt tttttggcaa attttaccct gatcttttgt tcttactaat 180
 ggataatgat aggaataaag taagcaagtt ttcttaaaag tcaagagtaa aatgtgtcaa 240
 attaattntt tgaaaataaa attcgccaca aaaaattgcg ggtaaaaagt gtaattaagc 300
 caaattaact actattttca tcttactttt tctttgtcct tctaaaacaa tatatgacaa 360
 ctattattgt gaaacggagg gagtaacatt atccattcct actaganaan naatattcat 420
 tcctttgtat attacaagaa atagctatga taaccgaaga aatatgagtt ntgcttacca 480
 tggattgat atgaagtatc tatcacacaa gatcatgac 519

<210> 12301
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 12301

agtttggatc ctcttaacaa cttcaccaat cagctttcta aaaatcaacc agttaagtt 60
 cacaggtgct ataaatctga gtgacaaaaa tgtatggat ttgtcaaata gtccctttat 120
 ttgtcggaca tttaaaaaaa aaaaaaacca acccaaagct tatacacaac tgactcaagg 180
 taaattaaag aagctgcata gagatttact agaagaaatc aggatacaaa caagcacatt 240
 tgtgttcac cccggcatgt gctgtataag atattcgggt acagaagcct gttgcagaaa 300
 ccccatacga aaattttaat gataaaacat tatatacatt aaatggggat gtattcaata 360
 ggagtgcaag caggataacc ctt 383

<210> 12302
 <211> 484
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12302

atggtatggt atagagaata aaattattat gttgtccctt tgtntttctt cttcatcatt 60
 tetcaattaa ttntcttctt taacgcattt gcatatgcag gttgagaacc atgaaattga 120
 cacacaactg atggngaagg tgaagcagtt gatcaatgca tactatgagg aaaacctgaa 180
 ggaaagcttc taccagtctg agatagccaa gaggttggag aaacagcaga acacctctga 240
 tatagattgg gaaagtacct tcttcatttg gcatcgcccc acctctaaca tcaatgaaat 300

ttcaaacatc tctcangagc tntggtaagt caatccatat atgttccctt ntcttnttt 360
 ttacctacat gtattctcct ttagagataa ttntgattga gacacagtta aacactanat 420
 gtgaatattt ctccanacat anattcanac tttgattacc atgtggtgga aactaacct 480
 tatg 484

<210> 12303
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12303

atcttggtat acttgnatat tatatgtgtg tgtgtgtgcg cgtgcgtgca tactttcggt 60
 tatctctact tatttagaaa tgtgataact cactccatgt gtgttatttg tgtttagatc 120
 ctgtgatgat atcgaatttt atgttcgtgg gagcagatga ttaggtggat gattttaaat 180
 aacctcgtgc tagaggacgc tgggatacaa cactctgatg gatgtgacat tgacgtatga 240
 atttctatat tatttgtata atattctgaa catgttattt tatgttgctc cgctgtttaa 300
 ctagtttttt gtttttaaaa aaaaatagac gactttgttt gcggctagag acgtttcata 360
 ctcttataag tttt 374

<210> 12304
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12304

acccttgaa ctacttcaca ttgatttatt tggtcctca agaactatgc gtttatgtgg 60
 aaattactat ggcttagtaa tagtagatga ttactcaaat ttcttggaact ttgtttttga 120
 aaacaaaaa tgaagctttt gatgattttc acaaacttgc caaggtgatt caaaatgaaa 180
 aaggtctcaa cattgtttca attagaagtg atcatggagg tgaatttcaa aatgactttt 240
 atgaanaata tgaaattcac cataattttt ctgccccaa gacatctcan gagactggtg 300
 ttgtggagag gaaaaataga tccattgaat aatgtgcaag agaccttcta tatgaaacaa 360
 gggtagctaa gtactatata gaagaatgta tacatacgta tttgttcacc ttgaacagag 420

tacttattag acctatct

438

<210> 12305
<211> 397
<212> DNA
<213> Glycine max

<400> 12305

tctagcttat aagaacaaaa tcgcctcaat cattgtcaaa tatgcatgtg aattaggacg 60
catcaacaag aatcaagcca aggctattgt gcaagcaatc aatggggcaa aacacaccaa 120
atgattatga tgatggatgg ctcaaattct cacaaaggta aactcatcac tttcaaattg 180
agctttcaaa actatcatga catgtagagg agaatcaagg atttcaagtc acaaaatgtc 240
aaaaattttt attgtcaaaa caattaccca tttcttgaac atatcctata attcagagaa 300
aaatatgcaa aggtcgtaca tgcacacaaa attggaccca aacattaaac taacaatccg 360
acaacattaa caaattaaca aaaccaacat aactagc 397

<210> 12306
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12306

ctaagttctt taacaagctn tgaacaatat acttgccctt catttaactg tctttgngct 60
tggcggccac gctcaacana gtattnttga aacctactgt acgttgattt gaccaacgct 120
gttatgggaa tgttgcgaca atccttcana accttattga tacattctga gaggttggtt 180
gtcatgtggc catatcgacg tccttctcta tcataagcca tcgttcattt ttcttttgaa 240
atgcatgcaa tccatgttgc tatggctgga ctcaattcac gaaattnttc taaattntga 300
taaaaaaatg tgcttgcaag gagtgtangc tgcataaaat tagttatgaa taacaatctt 360
aagtacatat ganagttaaa taaacgtcaa ccatcaaata tgaaatctta cccaatntct 420
tcaacatttc 430

<210> 12307
<211> 274
<212> DNA

<213> Glycine max

<400> 12307

agctttgagt taattcttac gacgataact ttgtactcgg atgtctgact gaaaccagtg 60
atatatcgag tcgctcgaaa ctgaataccg aagcgctgac caaattcaga cgaccataac 120
tttctactgg gatgttcgat tgagtcctcg aatatatgca ccagctcgaa gaagaatgac 180
gaagctcgga gcgaattcgg acgacctaaa cttgttactc ggatgtcgga ctgaatccca 240
caatatatcg ggaggctcga atgtgattgt tgaa 274

<210> 12308

<211> 397

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12308

agtaatagnc tgcacttaga agaagatagt aaacttgata cagggtaaat agataatggt 60
caaatagaagt aacggatttt attacaaatt cgtatgaatg aattgccaac aaagtattca 120
atatttctgc caatgtattg tcttgtaact tgtaaggtta taagaactta aaggcccctc 180
aatatcaaaa taacagaaga atcatcttgc actggcctta nattattctg ggaatttgta 240
gcacanaatg ttttcaacct ctccgtctgt gttggctgat aatcagcagt tgtttgact 300
ctggatcatca attgatttgc tgttttcttc actctcttcc tttcttgtag tgtaattaat 360
gtgtacaatt tgcagcttca aggaacacaa tgatggt 397

<210> 12309

<211> 143

<212> DNA

<213> Glycine max

<400> 12309

agcttatttt ttctatacac taaccataga ccttcattca tacctttccg agtgagtgat 60
aatgctacac gaaaaattac ggcacttacg atatcttaat ccttagatga aagcgtaaga 120
gactatcata gctaattact aaa 143

<210> 12310

<211> 344

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12310

aacatgctaa cntncacgtg tggcaccgta accgaggaga tctccctgtg tcagacaggt 60
 gtccaattcc aaacatgctg aagatcaact tatacacata tattatgata gctctttact 120
 ctaacttctc taaaatctga aatacatgag ttgattctga ttcattggag aactacaaca 180
 cactctagct gctatgtgtg tgttcttata ggaagagttt acaaagaagg tcgcaatgca 240
 cacacgcgag ctattcttaa ggtacgtgat gatcttacta agagtgatac tagttatgga 300
 acacacagat gccacccgct cgtcagacac actatcaagt aact 344

<210> 12311
 <211> 110
 <212> DNA
 <213> Glycine max

<400> 12311
 cagtacatta tccaaagcta aaggcaccta actatgcaca caaatggatg atcacaccaa 60
 cagcatacgg acattaatca ttgaatgaag catagaacac acatcacata 110

<210> 12312
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 12312
 agtttgccca gagaaggagt ccacggagga aatgcttacc acctcaaaag actggaaagc 60
 ggttttctaat gactcctctg cggcttccac ataaggcata gaggatgggc agctcaccaa 120
 gatgtcttcc tcgcctgata cgatgaccag atgcccttcc actacgaatt tcaacttttg 180
 gtggagtgtt gaggggaacaa ctctactga gtggatccac gggcgcccca acagacagct 240
 gtagggggggg ttaatatcca ttatttggaa ggtaacttga caggtgtgag ggcctatctg 300
 tactgggaga tcgatctctc ccctaacctc tcggcgggtg ccgtcgaagg cacgaactgt 360
 tagacaagtg gcctcagata tctta 385

<210> 12313

<211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12313

gcttctacat tcaatntcga gctnttcgaa tattacggga ctcaatcggg cttctctatt 60
 atttagttat cgtagtttga atttgctcag ggcttcggta ttccatttcg agcgtctcga 120
 tatattacgg gactcaatcg gacatcagag taaaaagtta ttgttggttg aatttgctca 180
 gagcttctgt attccatttc gagcatctcg atatattacg ggactcaatc agacatcggg 240
 gtaaaaagtt attgtagttt caatatgctc agggcttcgg tattccattt cgagcgtctc 300
 gatgtattac gggactcaat cacacatccg agtaaaaagg tattgtcgtt tgaagttgct 360
 cagagcttct acattcaatt tcgagctgtt cgatatatta cgggactcaa tcagaca 417

<210> 12314
 <211> 341
 <212> DNA
 <213> Glycine max

<400> 12314

agcttctaga ttagtgtagc aaatgaccgc ggctccagcc aagctatctt ggaaaaagtg 60
 cattaacaac ttttcatccc tagaatcgc ccccatcttg cgacaatata tattgagatg 120
 gttcttagga caagtcaccc ctttgtactt gtcgaaatca ggtaccttga attttggggg 180
 gatgacgatg tccggtacca ggcaaagatc cgccatgtcc gtgaacagat agtcgccata 240
 gccttcaaca actctcaatc actcctcgat gagatcgagg ttcttctttt cttccactgc 300
 caggggtgag ccctctgtgg acaaaaatat tggccatgct g 341

<210> 12315
 <211> 522
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12315

tagcgtgcac cctcactaag cgcaagact cangttagc gtgaagaatg tccattanga 60
 agcccanagg cgtgcttagc acgaagttag cgtgaaaagt aagctactct aggcctataa 120

aaggaataag aagcaaaagg agaagatacc actctggaga ctcaggggtc tctaataaat 180
acataactaag tctgagcatc tctaataagg gaaatcctct atatatgtcc attggcccct 240
tctcctccta tatccatccc gcttcttcta tccacattag cccctaaatt gtaaagcctc 300
tcatgacaat gagaggctaa accccttttag ttagggactg acaggtctaa aaagtcacaa 360
gatgtattat atgtttcata tctatcaatg caaacatgtg tattctttcc tattatcctt 420
ccttattcta attacatgta tcattcatcc ttgcattatc tntaggagt aggtgctcga 480
aagaagataa tcattagtag aaatacaagg aagggttat at 522

<210> 12316
<211> 386
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12316

agcttcgact ttactcgaa ggtatctcct tgtcttggtt aattttcggt ttccgctagt 60
tgcagcatct tctggattgg aaatatcgct tgttgcgtat tctctttcac cgaacatgaa 120
acattaactg gtatagatta actattttgc atcttattat gctttgcttg cgccattggt 180
gttaaaactc caatcatatt gtttaaactt tgaagactta ttanggatta aagattgact 240
atgaatttgg gccataaatt gtttcaaaga attactgagt gtcaaagttt aactgtaggg 300
tcaaaagttt tagtatgact ccctgatgct ttgtgattga atctggaaaa ctgatagctt 360
aacagtactt ctaaatttat acatca 386

<210> 12317
<211> 333
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12317

tgtccacata tactntgttg caacctaccc ttccggcgtgt atgtttacgc gagggctcac 60
aggtgcgtct tccatgacag gaanatgtgt ggagttgcca ccaacgttta ttccaggaaa 120
acgtcggaga aactggaaaa ggcattgtct acgaacttta agtttgaaag gttcgggagt 180
tgtatttacg cactgaggaag atattagcac cccacgcgtc cgtcacagag tacggcagcc 240

tttaaatcaag tgtgcaaata tgacttcaat ttgttatatc ttcccttntt tacgctntgt 300
atgtctatgt atgcctttta tattctttat ctt 333

<210> 12318
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12318

agctttttgtt cctttntata aaaagagaag ttctgaaact catcacgttg tctaaaaagg 60
ccttgagggtg gatccaagtg ctataatcat tcattagcat attcatgttt tgggtggcata 120
ctcaccactg ttgttttctt tagggaactc accataacta aaaaagcgca aaggcacccc 180
tataacaccc ctatcggcct taaaagatca aatggcttct atcacagagg ccatgctaaa 240
gattcaataa actatagaag ataatgctac agcggtcgct tccaatacgg ctagggaagc 300
agaatcgggtg ctacaacccg caataaactt gggccgagat gganaacgca cgggtttcaa 360
tcggagggtat aatcctcaag ctacccttat ggtt 394

<210> 12319
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12319

cttcctgggt ttattgttga ctatagagtg gtacctggag atatgtcgcg gtggtcagga 60
gaaccttgagg acgtcagggt gngtgctatt gcccanaacc aagcttgacc aatcccgacc 120
caacccgggc atagtcggtc agtgagaacc tgtgatgtac ctaagcaggc gagctcctgg 180
cagtcaacag ataaaaggaa aacaagacca caaagcaagg aggcttgtgg tggctggcca 240
gctgtgaaaa ttgattgata tgtgagatat ggtctctggt aatcgattac caaggggtggg 300
taatcgatta caaggcttan aaatgaagac agggagctaa gatgggtctct ggtaatcgat 360
taccagggga tgtaatcgat taccaggctt 390

<210> 12320
<211> 391
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12320

agcttgaata agcgatctaa gtatttaata atatttagaa tatgttttga attccatcta 60
ttaattaata gtaataatgt tgaagtttaa atctgtatac gttataagtt aattaaaccc 120
cattatcatt attgcaacga aaaagcatta attaaatgca tttattaggc ttaaacatta 180
aatgttgtaa ttactaaaaa aactaagtat ttgttaaagt gttttcatat tgtcaaaggg 240
atttaactta ggtaggtta agcgaacgaa ttattgtaaa tttttttatc ttttaattcct 300
aagaacaaaa naattaatth tatattntaa aattntatta ttatcataac attgatggga 360
aactaatata ttacttagac attntttatt a 391

<210> 12321

<211> 364

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12321

cttctgctn ttactcggtg attacagagt ggtacctgga gatatgtncg cggggtcagg 60
agaaccttgg gacgtcaggt ggngtgctat tgcccanaac caagcttgac caatcccagc 120
ccaacccggg catagtcagt cagtgagaac ctgtgatgta cctaaacagg cgagctcctg 180
gcagtcaaca gataaaagga acaaagacca caaagcaagg aggcttggtg tggctggccc 240
agctatgaat ttgtgtgata tatgggttgt ggcctctggt aatcgattac caaggggtgg 300
taatcgatta caaggcttan aatgaagac aggaggctaa gatgggtctct ggtaatcgat 360
tacc 364

<210> 12322

<211> 345

<212> DNA

<213> Glycine max

<400> 12322

agcttccact atatccaaga aattcaatth ccaaacatca tgaactaccc taaaccaaga 60
aaacagggca gaggcagaaa actctgcca aaacatattc acatattaca gctttcctta 120

ctcaaatact ccagtaacat tctcttcatt ccgatttggt aaccgtagga tcgacttgaa 180
aattttactg gagggtccta gtacataaat ctacattatg accgttgagg tctgctagaa 240
aatatccaga acccaatatg tactaccttt ccataacca acaatgcaca agcattttct 300
acacatgaac aaaaattctg ctgcacaaat ttgacagcaa ttttc 345

<210> 12323
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12323

ntgcagaatt ggtcttcgcc agtgaaagga tcaatgtggg ttctatanat tggcatnatt 60
gatcatccta ctangacgac cgaganaatc tgggcaaata aagagggtga ggatgaggga 120
gaaacccatg ctgtgactgc cattcctgta cggccaaatt tcccaccaac ccaacaatat 180
ctttactcag ccaataacaa actttctcct taccaccac ccagttatcc acaaaggcca 240
tcctaaatc taccacaaag tctgtctacc gcacttccaa tgacgaacac cacctttagc 300
acaaaccana aacaccaacc aagaaagtga atttgagca nanagcctgt anggttcacc 360
ccanattccg ttgtcatatg ctaaacttga tcccatatct acttgataat tcaat 415

<210> 12324
<211> 385
<212> DNA
<213> Glycine max

<400> 12324

agtttaattg gttcaggccg gtttggacaa gtctacgaag gaatgctaca agataataca 60
agagtagctg tgaaggatgat ggatacaacg catgggtgaga tttcaaggag ctttagaagg 120
gaatatcaaa ttctgaaaaa gattaggcac agaaatttaa taaggatcat cacaatttgc 180
tgtaggccag aatttaaatgc ccttggtttt cccttgatgc caaatggtag ccttgagaag 240
tacctatc caagccaaag gttggatgtg gctcaattgg taagaatctg cagtgatgta 300
gccgatggaa tgtcctatct gcaccattac tctccagtga aagtagtgca ttgagatctt 360
aagccaagca atatactcct tgatg 385

<210> 12325
 <211> 326
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12325

gctactccgc acaatgggtga cctcttgagg atgaagcaac aattcctcct tctgatgtct 60
 catggacact tatccttgat ccaagtacac tccatgcgaa aggtcggcca aaatcaacaa 120
 ggataagcaa tgagatggat nggctcanac attctgagca ccgacaaaat tatagtagat 180
 gtggaacaga aggacacaac aggcgtcgat gtccaatgca atctgaacgt ggaagttgta 240
 aattaataga ttatgtatta agttgcgtct tcaatgcac gtagtatcca tgatcagtnt 300
 gttttaaaat tatttattaa tatatt 326

<210> 12326
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12326

agttttatat actttccatt tttatataat aggactatga aagttttacc tgaaatgttg 60
 aacatataac aaaaatattg ggatatattt tacacaaatc atgttggcca agcttcatgc 120
 gtatgttttg tactattaag tcaatggcaa catcattatc tcctccactc gggatgataa 180
 tatcagcata ctttttagtt ggcaatacaa aatcttcaaa acttggcttt acaaactctgg 240
 aatactgaac aatcattntg tatttagtca aggaggactt taaacatttt taaacaaaaa 300
 caactttgaa taagttatat gctgaaaaga aaagctacaa gaatcaataa aaaaatgttc 360
 aactagggga ttgtagta 379

<210> 12327
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12327

taccatcac atgtgtgact aggtggctgt cgtgtgatgg tgcacnaaca agttttccac 60

atccacaaag cgcgcataaa cccaccatcc nctgttgccc acctccaact gagctcacgt 120
 actcccacgt agcccatatc ttcgtttctc tcaacaccgg gtcccatca atcctcccaa 180
 gctttctca acatccaggt aaaacaacat tcaaaccgca caaactatca cagccaagaa 240
 aacagggtaa aggcagaaaa ctctgccccaa aacaccaacc aaaatcacag ctnttctcac 300
 ttatagacc cagtaacaat tccttcgttc ccgttcgta actggtggat tgactcgaan 360
 atttactgga agtcttagac ataacctaca ttttgaccgt ggatctgt 408

<210> 12328
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12328

tcaagctttc ataagtgaag ttaggtgcaa ccatctccct atgagtcctc tcacgaggtg 60
 gagattgagc catgttctca gtatgaaaat tagcagtcaa atgctcaaaa tcataatgtt 120
 cataatcacc agcaacagaa tgctcagaat acacgaaatg ctcagaatgc tcaaaatgca 180
 cagaatgatc aagatgtaca ctatgcctaa ctaatctatg aaagggttcta tcaatttcag 240
 gatcaaaggg ttgtaaatca cctagatttc ccctagtcac gcactatatg cagcaaata 300
 tgtatttctc anacaagcac taagggtaaa attaggggta aaactaaaac tataactcaaa 360
 cgatatccan atgagctgan tatttgtgag caacacctt 399

<210> 12329
 <211> 228
 <212> DNA
 <213> Glycine max

<400> 12329

gtcaacagaa tcgtgcttca aaagacgaat aactcacaag gatcagatgt agttcagcag 60
 tttctaatta gggaaatcta ttttcttttt aactatataa ctcttatgtt ccaataagac 120
 aagatactat acattgtcaa cacacacgaa ttccatagc ttcagctgtg tagtgaacta 180
 taccagcgag cccgcactct gcaggacagc agaaacacaa catgaccc 228

<210> 12330
 <211> 374

<212> DNA
<213> Glycine max

<400> 12330

agcttctaat ctttatacaa gaatgaagct ctgataccac ttgttagaca agtggcctca 60
gatatcttaa gaaggggggt tgaattaaga tattccaaac tactttccca attaaaaaaa 120
actatttcac tttttattca agttatgaat tcccttaatg acaatcttct taaatattga 180
ttcaaataaa acaatttgaa tatgaatata aagaaataat aaataaagga gattaaggga 240
agagaaagtg caaactcaga ttatatactgg ttcggccaca cccttggtgcc tacgtccagt 300
ccccaagcaa cccgcttgag agttccacta tcttggaat tccttttaca agttctaaac 360
acacaaggac aatc 374

<210> 12331
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12331

tagtcccgt gtcaagatga tcatnngag tcttctgtc tcttgcttc acattcaatc 60
ggcatttcca ccaattaaat gtcaatacaa ctttcttca tggngatcct cacacagaat 120
tatacatgcc acctnctcta ngctttagag acattngatc cgaggctagt gtccaaactg 180
cagaaatccc tttatgggtt aaagcaggct agttgtcaat ggaatgacaa gctatcctag 240
tctctcattg gttctagtta ttcttagttc aagacagatt atntcccatt cactaagttg 300
aaactctaaa gggtcgagct tcgctgcaat tctttactat gt 342

<210> 12332
<211> 298
<212> DNA
<213> Glycine max

<400> 12332

agcttgccat tcagctcgcc caggcgagca gggttgcttc ctccagaagc aacagccttc 60
tggaggaatc ttctgtaggg cccaagtggg cctagttgct atttgcaccc ccatttttac 120
taagtacacc cctgccttt ttttgggtga ttctttttcg taaagttacg gaaacttaca 180

aatttcgtaa cgatacttgt tttctttccg taatgttacg gaaccttgcg gattacataa 240

tcacccccctt ttgacttac ggaatgttac ggaacctcac taaatgtgca atgatgct 298

<210> 12333
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12333

cttcatggac tatcaatatac agatcacggtt cttcttgaat tataaataac tggcagatta 60

ttggtttgaa gtcaaaaagaa tcttgcttca naagacgaaa aactcanaag gatcagatgt 120

agttcagcag tttctaatta gggaaatcta tttttttttt aaatatataa cttttttgtt 180

cgaataaaac aagagaatat acattntcaa caaaaatgaa tttccatagc ttcagctntg 240

tagtaaaacta gagcagttag cccgcactct gcaggacagc agaaacaaaa catgacccat 300

tttctttgaa atgcanaaag aaaaaaaaaat gcaacagtn ttggcacatg taacctttga 360

gctntgaccg gagaaattac ttaatagacc ctatnntttg cttgtgtcac cccatanaat 420

aatgagcaag aatggattat gtcccttggt agtatttact ccaccata 468

<210> 12334
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12334

taaatactat gctatttcag agagattatg gaagtcaaact cctagtcgtc aagatatatg 60

tggatgatac catattcagt gctactaatg acttggtgtg cgaggattnt tccaaactta 120

tgcaggcaga gctcgcgatg agtataatgc gagaattgaa gatctttgtt ggacttcaaa 180

tcaggcatac aaactatggc atatacacac atcgaaccaa gtgcatgagg gaacttctga 240

agaagttgaa gatggatgat gaaaaccaa tgataacact tatgcatcca accactgtac 300

ttggactagg canagaatca tagcgggtgg atgaaaagac atacaaagaa atgataggat 360

atcttttgta tgtcattgag tccagacctg acattatggt cagtgtatgc ttct 414

<210> 12335

<211> 357
 <212> DNA
 <213> Glycine max

<400> 12335

agttttctaa tgagcttttg tccctggaat agagtctttc agttgtggga gtagttgacc 60
 aattgtgtct tctatTTTTG gttgggtcgg gtttcattaa agtagagctt gaagcccttt 120
 ttcttctttt catcatagat gggcagtcctt gggaaaactc tgtaggcac catcttgatg 180
 tcagtgcac tactaatgtg gagtccaatg ggataagtag ttgcctagtc tagtacgtac 240
 atttacttta agatgcatcc tatcatatta agatattgtt cggagggtat taggcaacca 300
 agatgggagg tattgaatct ggtgcgaaga atttagatta gcaccttctt ggaccat 357

<210> 12336
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12336

actgaacata ttctcggatg aaatgatgat cgatgtctat gttctcgtat cgttcatgat 60
 gagtanggtt ggaagcaaga catatagcag atttattatc acaaaatagc atcacagagg 120
 gcacatcaac ttcaaagtaa agaagtaact agcttaacct aacaatttca ctagtaacag 180
 aagacaacgc atgatattaa gcttcactgg atgattctga aacagtgagt tgcttcttag 240
 aacgcctaga gagaagggtg tctcccatat aaacacaaag gccagaagtg gatcttcttg 300
 tatcaacaca gcgtggccaa tcagcatcag caaatgcagt gaagttgaca gagttgtgag 360
 catggaagaa caaaccttgt tcaggagcag atctgatata ctacagacga atatgaacaa 420
 catgtaggtg acgaactcta agtgctttca tatactgact taatcgatca c 471

<210> 12337
 <211> 562
 <212> DNA
 <213> Glycine max

<400> 12337

taagctaacc tatacaatac gtcacatata cgataaggaa tatagggtaa tcatacacat 60
 atttaactag acaaaggag atttgaattc gaaagccatc gacacatcat aggcgaatcc 120

gagctcagcg cccggtgata ctctaaagtc gaccagcacg cattcaagct tataaatgca 180
 atagactctt gctcaatcga ttacttgata accgaacgac gtacagcccc ttggatagcg 240
 aaacccgaaa taaaaggagc aaatgcttgc taccctaaca attacattgt cattaacaaa 300
 cgacatgcag ctgaccaaga tagaatcatt tgccaaccaa gcgataattg tgagtaccat 360
 ctaatctatc ctacaccaac ataagaatat cagttaatgt tgaaacgata gaacaaaaga 420
 taactcaatg aatccctaata gcaatgagat tcgacatctc gccactattg acgattcatt 480
 aacatgctct tttttgcta agaaacccca catcacacac gttgcagtcc ctgaagagta 540
 caacatcgag ctgaaatggc tc 562

<210> 12338
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12338

tatgcgcata cttcttcacg aacgttcact tgcacaagac attcttataa ctattataaa 60
 tgcaccata tacaatcaag gcaccttcgt tacctagatt atttacatgt acttccaagg 120
 tgtatttggtt accttcacac cacacatttc ctttgctaga ttcacatata tgcatactct 180
 aaacactttg gctatcaaaa attgcatacg cgcacatctt ggtatttcta atacctatac 240
 atacacaaac ttcatgatga atcttgacta tctacacaat aagggtgctac atttcatgct 300
 ctccccctta tttnttcaag tgttggtact acctagagcc gcatgcaaata tcaagtatat 360
 tctcttttagc tcaactaaaat tgtattcaaa ttaagaggta gttccgtaat gtatcttctc 420
 tacataacat gcaacatatc tatagattgt tgtgagacat cttgactacc agaagtatat 480
 gtcatacat 489

<210> 12339
 <211> 311
 <212> DNA
 <213> Glycine max
 <400> 12339

agctttcaac ctgctgtttt tatgtgcatt cccttttagt cctcaaggct tttaatgata 60

tcactgtggc tgcttaagat ataacaaatg tctggatgaa tactttatcc tattgtggcc 120
cacatggagt atccagacgc ccatatctac tgagacaatg gtgactgcgc tgatcattcc 180
gctcactatg gtgtaaaatt actctattat agtggacgat acactttgta taaacatgag 240
gtgtacaagg ggagatactt ggcattgctt ggacatttag ataaaggatga cctttgtcat 300
ttgtatggac a 311

<210> 12340
<211> 349
<212> DNA
<213> Glycine max

<400> 12340

actgaagttg ctaactttat tattgtaccc ctttagcatc atgattagaa tgtaaattg 60
ttgctagaat tattttcatt ataattgatc agaggtgtgc atcccctgaa cttcataaag 120
caccagtgtc gtgctcttga ttatattttg gggctctaga cccttgaatt gtaagtcaca 180
ttggaatgac ttgctcttta ctcaacaggc agctgctcaa tcggcacaca gtgctgacct 240
tttctggagc cttgcctcag tgcttttgag tctcgcatgt tattttgctt acaggctaaa 300
tctgatatat tttctcacct gcacattata attacgatga atatgtctt 349

<210> 12341
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12341

agcttgccac tggagctgac ccatcaactg ccctaactct tttaaactgg tgattcctat 60
gctcttgacc ttgacttgat agaacctctt tttaagcgaa ggcgtttgac ttgatcccat 120
gttttaataa agtgaaacaa aatctagtgc gaatcaaac tccgacatct atcatgggtt 180
gaatggatga atgcataaag aaatgcatat gatacagatg caatttatga atacgggagc 240
ccgggaaatt gtctccttct tagatacaac gtcttggggg agcacagtgc ccaacgtatg 300
tatttaagaa agtgacacgg accctccgtt ggnttgccaa agagaggnga tcaagacaga 360
acccatgcat gatgcatatg tg 382

<210> 12342
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12342

atgtaacatt gaggtatggg tttctgtttc aattgtatga ttctctanac atattatttt 60
 gctgtattgt atttcgttgc ttaacttgag ttcttttagta aacttggacg accttggttt 120
 gttctggaga tgttcttaat aaattntatt tagtaacagt gaagcgaatg tgatcctttt 180
 acccacgtgg atttgtttac atgatttgaa taaaatgggt ttaattaaat tctggatttt 240
 tatatatctt tcttatttat atgtatctcg gcgtagaggg tgtcacactc agtgctcgcg 300
 tgaccctgtt cacctgtccc tateccctgtt gctgtgcttg ctcaactgct ctactcagag 360
 tcaaagtaca tcgtgacgga tcaaggccgc gactagttca ctactccgtc aatct 415

<210> 12343
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12343

agcttgctta agaagattca taaagaagct agagtttagc tacacacacc tctctaatag 60
 ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataataact 120
 aagctcacc ctatgccaaa aaaaacatga aaatacaaga aaaagccctt actacaaaga 180
 ctactcaaaa tgccccaaaa tacaaggcta aaaccctata ctactagaat ggccaaaata 240
 caaggcctaa acgaaggaaa aacctattct aatatttaca aagataagcg ggctcatatt 300
 tagcccatgg gctcgaaatc tatectaagg ttcattgagaa ccctanggcc ttcttttagta 360
 gctcta 366

<210> 12344
 <211> 491
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12344

tacctcaatg cnatttttct ctatatccat gaagatagct aacatacacc ttnggaaagt 60
 gggttggtgca tttcacaatc canaggatat ccttatgtat gtaaaaacat caaaaggaca 120
 agtgaaagta gttntctctt ggtctttaag atctactaca anttggttat agccgaaata 180
 accatctaag aagcaataat aagcttgtag ggccagccgc tctaacatct aatccatgaa 240
 aggaagggga aagtgatcca tccttggtgc cttgttaaga attttataat ctatgtacat 300
 tctccatccg gtcattgttg ttgtgcgaat taattcattt ttctcattct taacaattgt 360
 catgccaccc ttcttcagat ccacttgcac tcaactaacc catgcactat ccanaattgn 420
 gtangtcatt ctagcttcta gaagtttana acctctttcc ttaccccttn cttcatcaca 480
 agaatcaatc t 491

<210> 12345
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 12345

agctttggat ttggtaagca acacttatgt cgagtctccc ccagtgtaac cgtgctcatt 60
 tggcgctcgt ttgatggttag ctcggtgat gttagggcat ggatacgagc ccggaagggg 120
 tttgggtcgg aacgacgaca gcatggtgag cttgggtggag tccaaagaga accgcggaag 180
 gttcgggcta ggatataagc ctacacgcac cgacgtgagg agaagtgctc tagaaaggag 240
 gggtagaagc atgggccaac cgtgaggacc gcaagtgaaa gggattccct tacgtcacat 300
 caatgaaagc ctcatcagcg tgggctggat gtgtgaaatg gcaatcgcca tgatccatga 360
 tgaagtcctt aag 373

<210> 12346
 <211> 528
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12346

tattagttgt tgcatttcag tattactgcc tcttatggaa gaacggtatg catttcttgt 60
 attgtatact tgcttgatta ttgtataact attggcatta tcctctttca atgttagcag 120
 aatatttatt gggtcaccat tgactntgtc aataatcttt tcatccaatt aatgacttag 180

tcaattcatg attgtgactc ccacacatta acttcacat ccattcctttg cctccaacca 240
 ctagtcttcc atgcggttta atggggcacc cacattntct actgccagtc attattctta 300
 acaaattctt cttcttgacc ctatactgac cactccttc acaaccaatt aacacaaatg 360
 acgtccttcc tctcatacca atatttgtgt ctgacctcac aattaccgtc acanaaccaa 420
 ttccataagc aacagctcga gcccaattca naacatcatc acgggtagca nacatttaca 480
 atgcaatcca nacatctnta gttnttaagg gacattcatt aacttact 528

<210> 12347
 <211> 357
 <212> DNA
 <213> Glycine max

<400> 12347

agcttctagg ccttgtggag cttcttgctt ctactgcttg aactgcactt gcaagcttag 60
 cttgaacttc accagtaaca tcatcagggt ctggatcact taatatttct gcattgatat 120
 gcatcattgg cttcttgctt ggatcatgct tgtgcttcat ccatgtgttc agcttatcga 180
 attggacatc cttactaaaa actattagat tcgctcttgg atctaagagt ttgtatgacc 240
 ctatgggatt gtagccaaca aagatcatgt gttcactctt gtcaccaat ttcgcccttg 300
 attgatcagg agtatgtcat gaacatgatg aaccacaaac tctcatatgc ctcacag 357

<210> 12348
 <211> 175
 <212> DNA
 <213> Glycine max

<400> 12348

aaagcctaca tgcattcacat ggaattcact atacatagca caatactatc catggggttag 60
 catgatcacg acgcgagcta tacttgctt tatctaacta gattgtacct cacacactta 120
 ttgatatcag ctcacgcgat ggcaaataga catgctatcg acttaatggt gaaca 175

<210> 12349
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12349

agcttctctt ccaattttct ataaataggg ggagaagtga agtgaaaaag ggttcagccc 60
cttatgcact tatctctctt tcgaattcgc ttggaaaaat tgtttccatg aagaaaatct 120
aagccgaggg gcgtccgaaa tgtttccgta aggaatttcg cgaaggtttc gaccgttctt 180
cgacgttctt cattcggttct tcacgttctt tcgatcttca acaggtaagt acctcgaacc 240
aagcttttcg attcattcta tgtaccctg gtggccaca ttgtgttcg tgtattttta 300
ttctcgtgtt atttactttg tataccccct ttgacgtgc ttagaccatt ttatttaagt 360
catttctcgc ttanactaga aataaaat 388

<210> 12350

<211> 472

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12350

cttattttct tctcctatta gtgtgtgttg attattttat ccaagcatgc cttatatac 60
ctttcgaaga agttgaatga aaagagtctt tatagaagtg cataagttga tattagttaa 120
tgtggaatat caactcattn taccttatca tcttctctg taagtactta tagagaagtt 180
tatctagaga ggaccttgta cactttctaa tgtgtaatat aatcctttct ttgtgttcta 240
agaaaataat aacaggggtct tgcagcggat aaagggtgaca tcgcaagagg cacagatttc 300
actgcgacat tgcctctgcc tcacacaaca gctattgatt tcaggcanac ttccagaatg 360
acatttctat ctattatcaa acataattng gtgtatntaa ttctgagcaa gactttgacg 420
tttcttcaga ttctaacgta tcactntagt ttagtagatg taatcttaag tc 472

<210> 12351

<211> 392

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12351

agcttactga tttagtcctt tcaaacgggt tgccatctga ttctataaa atatcagttt 60
caattttgtc acaatctctg gctcagtttt cggcgggtcat catccagttt ccagcaagtg 120

atggggctct tctgagatct agtttagaat ctgctcgctt ctatttccac caaagggaaa 180
 catatccacc tgcagatata atccatacta gcgagtctcg tgagtgggtgc aaaacatctg 240
 gttattatgc agatcctcat ttgtggcaag aaacttatga ctatagaacca ggattgactc 300
 cttcagaacc taataattca attgagttcc ccccggcagg tttgccagac atanttgctt 360
 tattcggaag agcagccaga gatattctgg at 392

<210> 12352
 <211> 399
 <212> DNA
 <213> Glycine max

<400> 12352

agctttcata agtgaaatca ggtgcaacca tctccctaag agtccttca cgagggtggag 60
 gttgagccat gttctcaata tgaaaattag tagttgaatg ctcaaaatta gaatattcag 120
 aatcaccagc aacagaatac tcagaatgct caaaatgctc acaatgttcg aaatgcacag 180
 aatgatcagg atgaacacta tgcctaacta atgtatgaaa ggttctatct atttcaagat 240
 caaatgggtg tgaatcccct ggattgcccc tagtcatgca ttatatgcag caaataatgt 300
 gttctcaaac aagcaccagg ggaggggttaa aactacaact atagtcccat gatatccaaa 360
 tgagctgaaa ttttgtgagc aacaccctta tatcatgaa 399

<210> 12353
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12353

tcttggatct gagaatcact tagaattagt gangaaaatt gtttccgtga agaaaatcca 60
 agccgagatg cttccgtaac gctntcgaga cgtttccgtg ggtgatttcg tgaagaattt 120
 ccaccgttct tcatcgttct tcggtcttca accggtaagt tcccgaatc gaactnttca 180
 attcattcta tgtaccttcg gtggtcctca tttgtttcgc gtgctattat tgttatttca 240
 tttgctttcc cgtaccact ttgacgtgct ttagtcattt atttaagtta ttttcccgcc 300
 taatcaaaaa taaaataaat ttccaccgat cattcatatt gtgacatctt ttaatntctg 360
 gtaaaataa 369

aaatacaact aatcattcac acaacaatca tggaaaaata taaactaatc atgaagcaag 300
 aaacatgacc aaatcanata ttatagaaaa tcacataggc acataacata attcataatt 360
 gttcaaacac accatg 376

<210> 12357
 <211> 482
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12357

tggtcttcgc cggcnaagga tcgaagcggg tctgaaaaga tgcattntga tcctcctact 60
 ttgatgagtg agaaagatgg ngcaaatgaa gaggatgaga atgaaggaga aacccttcct 120
 atgactgcc aatcacatg gtcaaatttc ccatcagccc aacaatgtca ttactcagcc 180
 aataacagtc cctctcacc aatcatccac aaaggccatc cctaaatcaa ccacaaagtt 240
 tgtttaccgc acttccaatg acgaacacca ccttttagcac aaaccanaac accaaccaaa 300
 aagcctgtag gattcacccc anattccggg gtcatatgct aacttgctcc catatctact 360
 cgataattca atggtttcta taaccccagc caagggttgc tcaacctcca ttttctgagg 420
 atacgactcg aacgcaacat gtgcatatca tggaggagtt ccaggacatt ccattgagca 480
 ct 482

<210> 12358
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 12358

atthttgtgaa ttatattcaa gagctcttaa cactttgggt gatgaattct tgtgttctat 60
 tagggtaa atatatggcc aaaaggaaac aagttgactc ctgacttttt gctggatggg 120
 tcagatatgg atcatcatga agactaaaag gaaaaaagta attaaaaatt tgaagatttg 180
 catgttcggg tgcccataga aaaaaagata catgaaaaag aaagatgtgt ttattaatta 240
 aagaattgaa agcaactttg tgatgctaata taaaagtatc cctctggatg ttgattctgt 300
 tgaatttaaa tataaaatcc ttatatgcat aaaaacttgg aacgtgtggg tggacttaat 360

ggttggctgg ctggctgtta ctgcttatat tg

392

<210> 12359
<211> 502
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12359

gctttctctg acacctacat tcctatacga tgaaaactnt gtttgatac acacgtatta 60
ttataaaccc tgtctcttta tatcaacacg gtctatataa aacatctatt ccttttcaaa 120
gatttctttn tccttntca acatacactc gttgttgat aaaacaattt tctttatata 180
cactcattgc tcacacacca gaatttcttt tcacacatta tttatacaca caaaatcttt 240
tcatacactg tntatataca aaaactctnt tcttttcttt atataagata tgacatttgt 300
tcacaacgcc tctntctttn tctattcttg gtgttatcat gatgtttgtt cgttntattn 360
taggacgacg ttctaaatg aaaactctac acggttccgg aatttaacan acattatcga 420
caataacgaa gtaagcacta nagcaacagt tcaacataat gtatgcacaa aacanatgac 480
aatcaaaaca acataaaca ac 502

<210> 12360
<211> 274
<212> DNA
<213> Glycine max

<400> 12360

tattttgaag agcagatctg agcctttctt ttatagactc ttcattgtctg gccaatataa 60
ccatttaca gagtgataac ttttagaata acttacaacc aatttgaaaa gttcaaaaac 120
cctttcgaag agttacatct gtagatgtat tcacaaacag tcaactggtaa tcgattacca 180
tatcagtgtg gtcgattaca cagagctatt atgtgataag atgtgactct tcacatacga 240
atttgaatct cagcgttcag aggtactggg aatc 274

<210> 12361
<211> 153
<212> DNA
<213> Glycine max

<400> 12361

ctcatagaga acaatcgaca aagctctatg tccccattg taggcttcaa atgctcgcta 180
 tatgtggata tggatccgtg tgttatgtag tagtagctgg caatacgacc caagtcagtg 240
 acctgaaaat atccactctt cctatcatac ttcaccaa attttctatc caagatgggt 300
 gcagccgtat gaatctgcaa aatttcagca agatataaag atcanaatca gccataaat 360
 aatataagac aggatgaaca ggcaagaaaa anattcaata ttgaatatca tcngaaattc 420
 atttaagaaa aaatttgaag gagataaatc agactaccaa agaagaccaa gaacctatct 480
 ctaa 484

<210> 12365
 <211> 390
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12365

agcttgggat tattgatggg gacccggtgt tgagagaaac gaggatatgg gctacgtggg 60
 agtgcgtag ctcagatgga ggtgggcaac aggggatggt gggtttatgc gcgcattgtg 120
 gatgtgga aa acttgttgtg caccatcgcc cgaccgccac ctagtaccac atgtgatggg 180
 taccataa tcctacaagc ttgagatgag gaagtgttga agggtgaaac ttctgcttt 240
 tattgttgac cacagagtgg tacctggaga tatgtcgcg nggtcacgag atccttggga 300
 cgtcaggtag ggtgctattg ccataacca agcttgacca atcccgacc accccgggca 360
 tagtcggtca gtgagaacct gtgatgtacc 390

<210> 12366
 <211> 439
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12366

tcttntctct ctttttctct caatcgttct tcatttttct tctctnttc actctgtttc 60
 ttccttattt cttgtacaaa ttntgtgtct ttccattag tgatgatcat ggaaggctaa 120
 aacttaaat ccaaggatcc actccaagca aggatgaatt tgtgttctag ttagtattg 180
 ttggacaaat ggctcaata acttaagatg gnggatntt aatccccttc taaatgatat 240

atgataggct caaaatgtag aacatgaagc aacaattaaa ttaatcaata ttctttatac 300
 gtgcaagaca aatatcactt gcaataaaat aaatgagata agggaagaga gaattgctac 360
 tcgattatat aggtcggcac ttctgtgcta cattatcctc aacaatcact tgaatttcca 420
 tattatgtaa tcttacagc 439

<210> 12367
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 12367

agcttgattt taataataat acaaccattg ggagccattc ctcttacact tattcattct 60
 cattcctttt ccttcatat ttacaccct tttgtatag ttaagccctt catggcaatg 120
 aagggtctaaa caatccattg ctgaagaact ttccaccaa ctctcttgat gtaattacta 180
 tcaactatcta ttaataatta ttattatggt cattgcctct ttccatgctt atttctatgt 240
 atttgagttg atcaccatt tatatgctat gatagagggt aggtattgga aaatgggggt 300
 aatccttata aatggaaaga acattctaaa tgcttcattg ctaaggataa tgtgaagtgg 360
 ttatcctgtg atacatatct a 381

<210> 12368
 <211> 486
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12368

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 ggaaggggaag gagtatgttc aatattgcag gcgccttata tctgataacc aaaagggtgcc 120
 atatgtgcat gacatcatgc ccacaggacc tgaagctcct ccggagcatg ttatttttgg 180
 tgtgaatgtt aaggcacaac atcaccaata ctgcaccaat actacagtat tgggtggcttt 240
 aagggttagat catatcatta ttaatggcat tttttctcac tttnttctgg cttgttttct 300
 gacttccaag ttctgacctg ctnttatnt attccaaact tcacttcttt tcaggtcagc 360
 ccanataaca agttggtagc atacgccgaa gacaccaaag gagatgaaat atatactgta 420

tgtcattgat gctgagactc aagctactat tggagagcct ctttgtggtg aacatcatatc 480
 tttgat 486

<210> 12369
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12369

agcttgagtt tggctctggat tgaagttaag ctgagagtgc atgttgacat cataataggg 60
 ttatggtaaa taaaaaattt tcttgatgac cacaaccatg agttattgcc aaataagctt 120
 tgtaaaatcc tgactagtca taggtcaatc cttgaggtaa acatgatgtt gttgaatagt 180
 atgaaagcag ttggaatggg aacccccaaa attttttggtt ctattgcaaa tcaatgtgga 240
 ggctatgata ggggtgggata tcgtatcaag gacatgtata accaaactgg aagaaacaaa 300
 ggttgaaaaa tgtggatggt aaattagcat tgaaatgttc gagtagtttg agtgtgaatg 360
 aacctttatg ttcttncata cacaattgat gatg 394

<210> 12370
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12370

ttgttggtgg tgacaccctt gttgatccat atctagaaga cgagggagac tgttctctta 60
 cagttntggt cttgtcacct tttgtggcag gggtttttgt tggagactnt gctctctttt 120
 ttggcaaacg aagctgtgca ttgtgcctt ccttactgct ttgcttaagg agcctaacat 180
 gaaagggatc aacggatgtg cagcagacag acccatcaac tccatttctt tctaaagtta 240
 catctccggt gtttacctga caaatgatag aacccacatc atagattgaa attatgatcc 300
 atgggttaatc caattaattg gactcttcaa tgtcaaacat cata 344

<210> 12371
 <211> 378
 <212> DNA
 <213> Glycine max

<400> 12371

agctttcttt ttttttgtt ctgatttttt ttactaaatg tagttttttt ttttctttta 60
aatttctatg cttcaatgaa attttatttg tgggtggtga gaaccataat gtttaacttta 120
atcaaattgt gaatcaaaat tgtgatactt tatcaccaga aatcacaaat gatagatgca 180
tgacaaaggt ttattgttac acatttatag agatgagaaa ccaaaagacg atgtttctaa 240
aaggaaggat tacaacatat gtttaaccat ttaataaatt acattaacaa gttatagtgt 300
ttgagatatt ttatttttat tcataaccta gtgatttttt ttacagcaac ctcatgaaaa 360
aatagacaac taacatag 378

<210> 12372

<211> 408

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12372

cagagcttga aagatttcga gtagtcgaag agaagttcaa gtccatagcc atcanagtct 60
ganaagagta tgatgaacta agggacgtca atatggccac cgctgaagcc ttggaacgag 120
aaaccaagaa ggcccgaag gaagaacacg tgccagcaaa gttntgaggg gctttatagg 180
gcagcaatag taagctcaag ctccgaagag gtgaaaggaa tcatcatggg tcanaggcat 240
gatcttgaag gacgagctaa aggcttacct taggtcgaaa agaaatttat cccaacagtt 300
aagcgagact gaagggaata tgtgggccgt catcgatgag tgcanagaga agctaaatct 360
agcggcgact cagagcaaa ggctagagga tgagtacgcc aagatatc 408

<210> 12373

<211> 403

<212> DNA

<213> Glycine max

<400> 12373

ttgttttgct cagcttctaa cttctggacc cttttaacag tgcacgctt cgtgtgcac 60
ttcaacacac acacacacac acatacatat acacagccac acacacacag aaacacacac 120
acacacagaa acaaacacgc agacagacac gacctgttag ggcacacaca cacgctgaga 180
aacacactca cactgtcacg gacagacacg cacatacgca taaacagaca gacacacgca 240

cacacacaca cacacacaca caaaaacaca cgcacacaca gaaacaaaca cacacacaca 300
cacacacaga aacaaacaga cacacacaca caaacacaca cacacagaaa cacacacaca 360
cccacactgg gtttctgtgt gatagaagca ttataaatta acg 403

<210> 12374
<211> 231
<212> DNA
<213> Glycine max

<400> 12374
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ttgttgactg aagaattgcc ttacacactt gtgcttatga gtgaaatagt gaccgtgagg 120
atctggctag atgaaccttg atatctgtgt tgcttgctag cttatgtcac ttgtgttgct 180
taataacat ggtcatatct ttgacattct gcatacttt atgaaaagct g 231

<210> 12375
<211> 554
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12375

ctggcgctca canttnggta gtcctgtat naaccanncc attagtnnan naaccgcgcg 60
cggctnttgc cgategatca tcaacgttct acgacgtatg tttatcttat tgacacaaga 120
caaccgcact tgagggtgcg ctcataatac aaccgactcc acctccacnn ccactagcca 180
taatcaacta ctggaacctc attatcgtgc gtacactaat attgataagt gcgttgaact 240
atcgccctaga tcacgaagta gtaattacga taacatccga tctcacagtg ttatagactg 300
atttgcacgc accaagcgca cgtagagttt gatatgtgga acacaacaat gtatccctta 360
tcaagacaca ctccccacgc tatcgaacta taccatacgc atgcatccat tctgattacg 420
ctataactta caacatcgct gatgcctgta ttatcgtagt ttcaatatga acgacgtgac 480
aacacacaga actcgtcaat atatgttaag aaatcgcgta tcaactctgca tgacgttggt 540
cacgatacta atcc 554

<210> 12376

<211> 497
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12376

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 tgtcttctct gtggctgtct tactgggtta gctccatctt cttaaatttat tccgatgcata 120
 catgtggatg ggctaatacc aggaatgtcc gccaggggtcc agcctatagc cttcttatgc 180
 ttcttgagaa ctgacaacaa cttctcttct tgctcatcag caagggaggc agatataatc 240
 actggaaaac tcttgctatc atccaagtaa gcgtatttta natttgatgg caaaggcttc 300
 aattctggtg tggtcggctg gacagtggta gaaggagatg gtttctcagc ctttacctca 360
 taaagaaagt cagaggtatg tgtacttctt gaaacatggt tagtcctatc tgactctata 420
 aaatcaatct caagaagtaa aacaccacca ccaggcattc atcaatatca ctctcagatt 480
 actctcacat caaattc 497

<210> 12377
 <211> 867
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12377

gccgtagnta ntcttacgaa cagactactc tgctcagcca ctagttagta tttgtcncgt 60
 gntanttttg natttnntnn gctgantatt ancactgcgt actntcgtcc atgactntcn 120
 tggtaacgac nnacngannt gttgcagacc ccgcttgnag tactcgtatg ntgcacatgc 180
 gactcgnagt nactgctgc gacntattag ttgcaacacc antgcatctn tgatggacta 240
 tgcacgggtg catcanttac tagctgggac angtagatca tttgctgatg cgcgctatat 300
 agatgagcan cacntntagt agtgtacgaa catgtgatca ngngatcgct agatatacac 360
 tctctcanan aggtatcaca gtgacgtagg catgataaat aatgcgtagc tatcgncnt 420
 ctatatcgcg atatacgcta ctctagctca cagaacgacg cacttgtagc tctcgtaaag 480
 atgtgacgct tggagcacac aacactacgc gcagacggac ttcattgctca gtgagacgac 540
 atactcgaat cttgatgatc ggtgcgtcgc gactcgcctc tncattgtac tacttgacgc 600

ggaagacgca tctcgtatat gacgccgtac gtggatcacg agccagtatt cactacctca 660
 caacgccgcc gcatactctgt gtcagaaatg ttatgtgtcc tattanactc acgaaggcgc 720
 ctcccttgga aagtcatact atttatacat ctctcactcg gatagagcgc ctatcgta 780
 tatctctage tgtgatacac ctatacgct acgctacgcc acccgccctc ttcacgcat 840
 atgtcatata atatgacgac tgcggcc 867

<210> 12378
 <211> 494
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12378

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 gtggtactaa gtggctgtcg ggcgattgtg cacaacaagt tntccacatc cacaatgcgc 120
 gcataaacc accatccct gtttgccacc tccaaactgaa ctacgtact cccacgtagc 180
 ccatattctc gtttttctaa caccgggtgc ccataaatc ttccaagctt tcacagcatc 240
 caagcaaac gtcatttaaa cagcacaagc tatcgtaacc aagcaaaaca gagcaaagga 300
 tgaaaactct tgtcaacaca ttaaccacaa tcacaagttt ttacttttaa gacacagaac 360
 aattcttcga tccatttgta accgtggatc gactccaaat ttactggagt ctatatgcta 420
 acccacattg gaccgtggaa ttatatcaaa tccaaactat tctgtctacc tttcacaaca 480
 acaacacaag cttt 494

<210> 12379
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12379

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 ggtgaacaac ggttgaacat atagtctttg gggtagctg gtctgggtatt agatgataaa 180
 gaccatgtct cgcttcaatt ataccaatct tcatacgttt gttcgtatcc tgcaacatgc 240

atgaattgga agaaaatatc aatgcacagt cagtagatga cacgagtttt gaaatggaaa 300
 taatattgaa agcgaatgtg ggtcttaata atacattaaa cagcggtata ttgggtgaga 360
 ggtgtacgac ttcggaatga gtaacgtgga catgatggcc gttatgaagc tttactgtga 420
 ctgggttgat gcattcatat g 441

<210> 12380
 <211> 529
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12380

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 gatcgaaaat gcctaaatca tcgcgcatat atgcatgtta ttgatgaagc tacgcaagag 120
 atccatcctg gccattgagc aaacgcacac aggtgctaaa cacaccacaa gattatgatg 180
 atggatggct cgaatattca ctaaggtaaa cttatcacta tcgaaactat catgacatgt 240
 taaggataaa caaggatatc agatacaata cgtcgagaga cttttatfff cagaacaatt 300
 acccattttct tgaacatatc ttataactca aagacaaaaca tgcacatcta tcacaacgaa 360
 acttacaata tttaactaaa acccaaccca actataaaat ctaactaatt tacaccacta 420
 acaaagccaa acctaaaaca cactctcccc atacttaaac acgcattgtc ctactgtgc 480
 ccaattaaca gataaatata ctattacctc anaagaagct gacactgtg 529

<210> 12381
 <211> 841
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12381

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 ataatnctgt ancgatactt actatactcc cnnaagaaac ganacangan nngnagtttg 120
 gaaacccttt tgatnacctt tcgtgtagtc actcgncgga nacncatnag gacagactga 180
 ngagcactnc tctgcacaca gtcgcatgtg caagaagtcg ccgacgagac gcatctgtat 240
 gacggctncg aacgtctggg gaactgacgt cantcgact acacagccgc agattgcntg 300

tcantatccg tgcaggatag cgactcgtag aactcagctg cgcactetta tatcgcacca 360
 tcganaaaca cacatagcgc gactattcac tggcgtgaca cgatcatctg tgtcatctca 420
 tantacacat gtcgatggca cntcgcgcg tctctgtgaa ctacnggatc actcgtgtat 480
 gtntgtggac ntatgtcaca cacaatcgcg cgtgctatca cgttcgatgt cagccatca 540
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 gggaccatca cacatttgtc ggaacgaacc tatectattc gaattcgac ctaggggtgta 720
 agaagaatag taatctgttg tataggtctt gaaatgcacg actgacacgc gaacatactc 780
 ttacctaatg caaaagcctg actgccggca cgctcgacg gataagtgat ctccatcttc 840
 c 841

<210> 12382
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12382

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 acacgaatat tctccctagg ctcgatgata agaaccgtac ctttagactg tgttactccg 180
 cccactatct ctatctctca acttctagaa tctcgnacac ggtagagtat ttgcatgcta 240
 cgaactttgt gattagagat agaataatta aacgactttt ggatagaatg ggcacacagg 300
 tccctatctt tgcactggct ttaccgtct atctttatct gcaaattgtct catgagtgca 360
 caaggacgtg tacacggtga cttctttct gaatatgacc caaatgaggg atctatatta 420
 acaatctgtt aatagccttg ccn 443

<210> 12383
 <211> 579
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12383

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acntactttc ncagaccagg acgatttggg nnccttgattc cctctgtaat acgtggaact 120
catagaatac taagcctcta tataagctga accaatttat caataaacac atgttggtgtt 180
atattcacaa aattaaagggt tatctctttc ttcttagtga gagagaatct cctaaaatct 240
tgagtaattc aagaacaccc tggctgtatc aaaggacttt cacaaccttt gtgtggtgcc 300
cttggcagaa agagtgagtc tttcctttct ttcattctca accttgttct tgtaaaccac 360
aactcccgaa aatctacttt tgcccaaaat tattttgggg gcataactcc attttacccc 420
tcaaattaag gatttgtggc ctaatggaat ttcaaacaaa cctttccctt gtttggatc 480
cccttattaa ccatgagctt gattatttcc atttattttt ggccgccccca cttacctatg 540
tttacatcct taatcattat gcaaaccact tttaaaccg 579

<210> 12384
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12384

tagacataag ttatataatt gttcaaggaa atctgcagca gtgggtactt ctattgtaag 60
ctaccacctc ctgagacacc ttttccttgt tacctatcag caccatagtt gacatttaac 120
ttttttctag tgctcaatgc aactccaaa ttataaactc attcaagtta aatgttattg 180
gttgtagca atgctgtcaa atgggtggcac catggccaaa tgggtgtggag gcttctttgc 240
taccacacct ccaaaggaag attgtgaatg gaagcctgct atggcggcac catatgcaac 300
aatggcatgt ntatatggca aaatttctgc cttctgccat ctgccattga taacattggt 360
gttgagatac atacaacaga agctcctatg ttatatt 397

<210> 12385
<211> 538
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12385

nttgacnccc ttgnaaccta gatgacgctc tctatgtacg cgacactata caatgctcca 60

SECRET

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<223>      unsure at all n locations
<400>      12386
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<210>	12387
<211>	334
<212>	DNA
<213>	Glycine max

ctggaactac ttcacatgga cttgatggng cctatgcaag ttgaaagcct tggaggaaaag 60

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<400>	12388
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<210>	12389
<211>	467
<212>	DNA
<213>	Glycine max

cattgcctaa	caagccaact	tacaacagcc	agccccaaga	gtctcagcat	aatgatgcac	60
agggtcaaagt	tgagtatgtg	aaaagattgt	atgaccaagt	gaagggtgcaa	attgcaaaga	120
agaatgaaag	ttatactaag	ccagcccaca	agaaaaggaa	ggaagtggta	cttgaacccg	180
gtgatgatcc	tggacatttg	angacaaatg	ttttccaaga	aggagggaat	gatgagaatc	240
atgaaacaag	cgcaatacag	tctaaaggcc	caagtggaga	aagacaaaac	ccccgagtgg	300
agaaagatga	aggcccaagt	ggagaaggat	gaaggccana	ngcagagaca	ctatcaagac	360
tataattngt	gctgaaggcc	aaactaattt	gaggcccaag	taaataagtt	tantataatt	420
attttattta	tagatttgat	acanatagat	tgattgatng	atacaac		467

<210> 12390
 <211> 501
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12390

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 cttgcgggac caagcgtggtt attctgtgaa gatgaacatt catcctcttg ctgaactacc 120
 tgtggctaaa cgacgctgga ttggctagcc cagggtgactt aaacatttta tttatgtgat 180
 agtccggcgc tcaactgaac attcttgagc caagcacaat tggttgcggc atacgctgag 240
 cttaactcca taacttaatg aaatntttgc tgagttaaat ggccgtttag gcaacttatt 300
 cttgggttag cttcaattca tgccggttac cttaacacta tgcttattag gaacctatga 360
 agagaaccat gctttctcta cttgttttac acagatntct tttgatgatt tctttctttg 420
 ttctagatag ggaatacatg ttataaccac agtatatttc atccagatgc gatttatcta 480
 atagctgcag atacacaagt g 501

<210> 12391
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12391

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 agccatgttc tcagcatgaa aattaacagc cgaatgctca aaatcagaat attcagaatc 120
 actagcaaca aaatactcag aatgctcaaa atgctcaaaa tgcgtagaat gatcaggatg 180
 cacactatgc ctaactaatc tatgaaaggt tctatctatt tcaggatcaa agggttgtaa 240
 gtcacgtgga ttgcccttag tcatgcaacta tatgcagcag ataattgtgtt ctcaaacaag 300
 cacctgacaa ggtggtaaaa ctacaactat agtcaaacga tatccaaagg agctgaaatt 360
 ctgtcagcaa cacccttaaa tcatgaaaag atagcacaaa aaatttcata caataattca 420
 aagtctaact atgaggacta cctaagcata ggtagaaca atacgacaat aataacttgaa 480
 aaa 483

<210> 12392
 <211> 528
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12392

ttgaacctga gatctgtgaa tacggacact taactattaa cctcgggtcc cttaaagtga 60
 cgacatgact aatatttcta tattattgat gggcatatca tctttgogat gcactcttgc 120
 atgtgatgta ngaccgttca tctactttg tgcgtgtctt aaatctgtct tccctattct 180
 ttaactaagg atcctaccgt attcaccaat cctcaggatt gtcaaacactc ataacgtaat 240
 ttattcgacg attacactga caactattgg cccatgtttg ccacactatc ggctgcatac 300
 agtgccactc tagccgtgaa ctgcacactg agatgctncc gcctcagacg ccacgggata 360
 ttatgaatga gaataagctc ctgacactcc tagtaaaggg ggacttgcca agacacgggtg 420
 ctctgtgtgt tccacgaggc gcaccggcat tctagacttg ccttgcgtat gcttgtgacg 480
 gcttaccatt gccgacttaa tegtccgaag aaaagccgac ttctctcg 528

<210> 12393
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12393

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 agccatgttc tcagcatgaa aattaacagc cgaatgtca aaatcagaat attcagaatc 120
 actagcaaca aaatactcag aatgctcaaa atgctcaaaa tgcgtagaat gatcaggatg 180
 cacactatgc ctaactaatc tatgaaaggt tctatctatt tcaggatcaa aggggttgtaa 240
 gtcacgtgga ttgccctag tcatgacta tatgcagcaa ataattgtgt ctcaaacaag 300
 cacctgacaa ggnngtaaaa ctacaactat agtcaaacga tatccaaagg agctgaaatt 360
 ntgtcagcaa caccctataa tcatgaaaag atagcacana annattcana caaaaattca 420
 nagtctaact atg 433

<210> 12394
 <211> 216
 <212> DNA
 <213> Glycine max

<400> 12394

agccatgttc tcagcatgaa aattaacagc cgaatgctca gcatcagaat attcagaatc 60
 actatcaaca taatactcac aatgctcaaa atgctcaaaa tgcctataat gatcacgatg 120
 cacactatgc ctaactaatc tatgaaaggc tctatctatt tcaggatcaa aaggttgtaa 180
 gtcacgtgga ttgcccctag tcatgcacta tatgca 216

<210> 12395
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 12395

tgctctattc aatgggagtg acaagaatat cttcagactg atcaacacat gcacagtggc 60
 cacagatgcc tgggagatcc tgaaaaccac tcatgaaaga acctccaaag tgaagatgtc 120
 cagatggcaa ctattgggca caaacatcga aaatcttaag atgaaggagg aagagtgtat 180
 tcatgacttc cacatgaaca ttcttgaaat tgccaatgct tgcaactggc tgggagaaaag 240
 aatgacagat gaaaagctgg tgagaaagat cctcagatct ttgcctaaga gatctgacat 300
 gaaagtcact gcaatagatg aggcccatga catttgccac atga 344

<210> 12396
 <211> 117
 <212> DNA
 <213> Glycine max

<400> 12396

tgtatcagcg tctagacctg accctgtccc tcttggtatc tatggagtgc aggaacctgc 60
 aggaattatt cgtgacctga gacctgcac acaaataggg aacagacttc tccttaa 117

<210> 12397
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12397

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acatatattc tgtacgacaa caccatgtga catattgtat gaccttatgc tccataggac 120
ctctgactct tatcttatac actaattggt gaagtaccca acagttngat acatatectt 180
tcatctatat atattgatgg ctgccagaac ttacgaccga atcgtgcatg tcttgagata 240
tgtgatattc atacactgtc atgttatatt cgcttagttt tcttattatc tgtcttggtt 300
cagtgtgca agtcatct 318

<210> 12398

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12398

cttatgacgg atntgcgaga ggccaaattg tctcgaaacc aatttaagct ggtatccaac 60
caggcctaaa tagttcgatt gaacacctgt acgacaagac aggatctgtg gattcaagta 120
aaatgaccat atttcgctca cttcttcttc attgtctgga tgcacaacag gaaaatagtc 180
agtgaaccag gccggggccga cctctcgact aatgaatgga gcatgttggg gaagaaactt 240
gtcaaagctc agaaaaatct tcatgtactt gagggaaaagc ttttgtggat attgatcgaa 300
agtcttgggt gttaatcgaa gtgctctctg gccttcgatc gagcgatngg caacttcttc 360
agcataatct tgcgtgatta ttaatcccat tctctgttcg aaagtgccgt taagccacaa 420
ctggag 426

<210> 12399

<211> 264

<212> DNA

<213> Glycine max

<400> 12399

tatcatgaaa ctaccctaaa ccaagaaaac agggtagagg cagaaaactc tgcccaaac 60
acattcacat atcacaactt tccttactca tataccccag taacattctc ttcatgccga 120
ttcgttaacc attggatcga cttggaaatt ttactggagg ttcccagtac ataaatctaa 180
attttgaccg gtgggatcta ctagaaaatg cctggaaccc gatatgtact actcttccca 240

tgactagcaa tgcacaagca tttt

264

<210> 12400
<211> 285
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12400

ttcattttta attataatgc tagttttatg gggaacgtat tttatgtaaa atatgtaata 60
acatatgttg atattggaac tgggtgttttg ctgaagaatt tgtagtacga agaaatttgt 120
tgctactgtc agttacccat ttttaattaaa tataatttgt tgctgaaatt tgcgatttaa 180
tcaattcacc taaaccagn tcaattaaat ataattttta tttattaaat aaaatttggg 240
gggtgtatagc caattgaatt aaatataatt ttattgggtat ttatt 285

<210> 12401
<211> 565
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12401

ttctcacctc tttatgctta tgtctacttg tctccgtatg tacantatnn cctctgatcc 60
taccgcccat gacccttgga cttctgctc tcaatcacag cttattcttt gggagaccgt 120
tccgactgca ccatacatat tgccctgaga agaaataaac atggcgcgag attgagccac 180
tggagtatgc tattcagccc tgatggagct gaaccgaacc ttttctacta tcagaaggta 240
aaatctatcc atggattctt gtgcccccg tccaaagagt ttgccttaat tgttgcaaga 300
cgactagcac aaaagaaggat gatgctttcc acgctggaac atctggtaat gaggggtcac 360
atgctcttgg attctagcac ttcttcttat gcanataata aatctaacta ttgtttcaca 420
agacgtttcc aaagaaccac cccttgatg ctcaattggg gatgttgggc catctcatga 480
ttgaggttac agtgccctgga ttcttctaatt ttaaaaaaat ggatttctcc gggttagaag 540
caacttttcc tctctgacca ctccg 565

<210> 12402
<211> 605

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12402

ccgcttacag tgctgcacga tatatttact catgcagtca ctcgantatg cactgacttt 60
 antnncaaa atcagaanan gaaagattgg gctttggtac gtcgtgaatc cagacacata 120
 agcatgtgga cgctgactat tntagtctca cccgcttgtc atctatagat ggcttggtcg 180
 atgacatgcg gagataccca agggatatccg tacctttgtc aactataggc aagcgagcct 240
 gttgatcgag actatttttaa tctcaccact ttgacacccc gacccatgag ttatgtggca 300
 tgcggagata ttcaacggtt attcgcacct tngtcaacta gaggcaagtg agcctcttga 360
 cgagactatt ttagtgtcac acctttgtca tccagagacg gcaagtccga taacatgtca 420
 agatacccaa ggggtttccg caccttttgt cagttagagg caagcgagcc tttgacctgc 480
 taagaccaat gtggatcatc gcacccttcc cgaagatgta ggcatcttcc ggccgagacc 540
 cacaacaaga tcaatttcct tttgtgacct atggggccgg agcacacata cacacataat 600
 ggcttg 605

<210> 12403
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 12403
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 ctttctcacc gtgccagaat cataccctca attcatcatt tgccacatat ccttctctatt 120
 atgatcccca ttctctttgc taaccaattt cccaccatat atcattttaat gcaaatcctt 180
 aatttttgta ttgcctcttg tgccttcatt gttggcatta tgctcaaatt ttcttttgc 240
 cagagcccat ccatttcttt ttttctctca tctgaactac ttccatgcga cacgtgtatt 300
 taccttgtag aagctctgta tattcatatt actttattat tgttgccaca tttcttgact 360
 gcactgcaga tctacttttc ttgagccctt ataaattacc ctttccccca ttctttaatg 420
 aatactatca cattcacatt cact 444

<210> 12404

<211> 281
 <212> DNA
 <213> Glycine max

<400> 12404

tacacaggct gaactttcca tgtaaaacca tgaataaatt caagacaata ttaactgaaa 60
 gacctgtgaa gcacctttat cattgtccac agcaataacc tgaccaattc cttctacttt 120
 acgagcatat ctgagagacc ttagcccaga agcagacaat gcctgtgtgc aggcaagaga 180
 gcaattatat tacacacatg atacttgctc tggattcaat tgccataaaa tattaaattc 240
 aatcaatatt gaatggacga caatgatgat gacatgaaac a 281

<210> 12405
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12405

ntaagatnta tctaacatag tattcaatcc cacttctagt gtgatatttg ntatttcaaa 60
 ctgaacatag caaaataaaa acttgataag aaatggggcca caaaaattag ctcatatcaa 120
 ggcatataag atatgcaata aaatcataaa aaaacaataa aagacacatg acaaatatcc 180
 caattcccgt ggggtattggc ccgaacccat cctgactttt acgaggagtn gcctgttttg 240
 tcgagtatag gtatgggtat taccgaana atttaagcgt ggatggggat ggcgatggng 300
 atgacgacgt gtatcaaatt atacttatag ccatacctgg ccaccattac atttttgtat 360
 gaattttttg tcacaacata tatttacaga atatattctg aatatttatt ggtatatttt 420
 ttaataatta ataacacagt aaaagataat gaatcttatt ttatctt 467

<210> 12406
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 12406

tcttaciaag catacggctt tctggatgta gatgatgata tctatacaga tggatcttat 60
 atatctatat atctatagat agatatatag atagatatat atagatatag atcatacaat 120
 gaagtaccgc acgagtgggt atataggaat ccaaactctgc cgaatcactc atgttatgat 180

cttctacatc ctaggtcttc cegttccttc atctggctta tgttcttcat gtagcattca 240
gactgaatga ctctatgaaa ttacgtcgct acttccacat ggtacgggta acgtaggaga 300
catctctatt ttccggggg gaatccttat attaccacag cttaactttc attcgctct 360
gacatcacat gaaaggataa cccgcctccc tcttgaaatt taaacaaagg tgttcggtct 420
gtcgtgttga acaatttgct ttcatat 447

<210> 12407
<211> 369
<212> DNA
<213> Glycine max

<400> 12407

gacatggaaa tctacttcag aatatttggt gtcttggatt aaaggctgaa tgtggatatt 60
cattcaaaga cttcagtatg acaaactgag ataattatgc attaattacc aatgctgaac 120
ctagtgccat taaagagaaa aattgtgtaa ttttaaaaat attcccagaa tctacattct 180
agaatcgttt ttactagttc ccattgactt tctatggagg gggggaatta agattctgag 240
gggaagtgtt ataactatgg ctcatcccg aatatctgcc acaatctata cttttacgaa 300
cataattcca gaaaatgatc tcgggacaaa aaattactga ccagttagat attgggttta 360
ccccccaac 369

<210> 12408
<211> 204
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12408

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agccatgtta ttgcatgaa ctttcacatg cgaacgctca caatcatatt attcgagatt 120
cactttctct gctctactct gaatgctcac aatgctcaaa atgcgtacaa tgatcangat 180
gcacactact gcctcactaa tcta 204

<210> 12409
<211> 469
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12409

taatgatgga atagctcttc ctactatatac actcagctgc atgggtaaata actttcattc 60
acataatgat taggtgattg agactataca tattccaacg agtaaattta gatacacaag 120
tcattntcac caattgtgct ctgatcatat tgcctttcct ctctgcatat gtttaggaga 180
acttttecta cactttttaga tacataaaaa taacatataa aaacaacctt atcccactag 240
gtaaggctgg ttacatagat tacacatgcc ataaaattaa tggttctgac tcctgagaaa 300
tacagacaat ctatttaata agttgtcact actgatttac ctcatatac aaagttcaac 360
actagtaaaa aaattggatg ttacagatcc tagcatttag ttgaccatat acaccanaca 420
atttaaactt acaatactta cantgaagtt tatactctct acttctaaa 469

<210> 12410

<211> 256

<212> DNA

<213> Glycine max

<400> 12410

tgcaccccaa tateggtgtc tgatgctaac ttactcctat atctactcaa tagtgcaatc 60
ataacctatg ccacggttcc tcaaccttca tttttctgag gatacaactt gaacgcaacg 120
tgcttatcat ggaaggggtct catggcattc cattgagcat tgtatgacct tgaaacataa 180
cgtgcataat ctaattgatg catgctgtct aaaatttgac gaggatcatc gcttgtgatt 240
tgtgaattct gacatt 256

<210> 12411

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12411

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atagagtaag agtgtgaatt tcccatcatg cgagtgtttt atgaaaaagg tatgatcatt 120
tgtagatgtg tgtaatacca cacttcagga tgctttattt ttaataaaga tatcatataa 180

ttaaggatac aatgaaagaa taaaaatccc taattcctag ttatacacct ttccatattt 240
ccctattttac atacaagaaa atcatatctt tacaataccc ctcaagttga agcatatatg 300
tcatacgaac ccaacttgtc acgaatgtag tcaacatgag aacccttgag agatntagtg 360
aacatgtcta ccacgtgggc tttggagcta acaaagtcag tg 402

<210> 12412
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12412

tctgatgcta tatccgttgg agtgtatatt tataatgtta atttaaacag acaaaaaaat 60
gagcttgaac ctgtgaacac anactactaa tacccttaga gtggcaccac actagcctta 120
cttttaaatt gcaaaggcca gttgacaccc cagtcttaac caaccgtaca cagtcttttag 180
gataaaattc accactgggtg aattcagtga gaggacatac tgtgatgtga ataattgggtt 240
attatattga ggaatttttt ttggcgagca tactacaaaa agtagtgatg gaaaacatac 300
cgtactgata gacttagggg tccaatttga aaagtaacat tctatgtatc aaggaaaaatg 360
ctcacagatg ctgatatggc aaatggtttt aacagcacat tatgtgtgct atttgacagt 420
gttttattat taaacttatg atgaccg 447

<210> 12413
<211> 304
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12413

acgatgatag cacttatcgc aacatgggtc gcttagcgca atcatcataa atcctaaaat 60
attntaacag ttgcaatgaa taggctaagt gcagtaagcg cgcttagcgc gctcatcgca 120
attcccaaaa ataaacacag gggttttcaa ccttttcagc tacattgccc ctaatgggct 180
tcaaaactac ctaaaagtct aaaataccta acctgacaac aactaactac gaaaaccata 240
aatgaactat cctaagggtt gaagcatgaa aagtaaaaat agaaatgtgc taacttactt 300
ggat 304

<210> 12414
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 12414

tctcgtagta cccctccacg tcattcccaa acaccgacgc gagccccatc ccgtgataac 60
 cacgtgcttc ttcgggtect tctgccacta cggggcggac accttcggcg ccactgtggc 120
 ggacacgaag aacacgcgct tcgcaaagga ggcgcacgc ttggcggcgg cattgttggg 180
 gccccgaaga gggccaagg gagaaccgcg gagggatgat atcatggaag gccagggttg 240
 tcgttagagc ctcgatggcg ccgccgcctc gcatgggtgt tcccgcgggtg gtttgggggt 300
 tggagat 307

<210> 12415
 <211> 496
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12415

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 gngttttgtg ccccgttggt ggagtgtaaa aaaacacagc tcgccgcggg gagactctag 120
 agaccgcggg gccctctct atactcttat agagagccgt taacataacc gggcggcggt 180
 ttacacagcg tggattggga aaaccggtgt taccacatta atgcctggag aaaatccctt 240
 ttccctgggg ataacaagaa ggcccacat tcccttccaa attggccacc tatgtgaatg 300
 ggctatgcg gttttttcct tcccactgtg gtgtttacac ccatatgggc ctctctaaca 360
 actgtctgtg gccgtattta gccagccgag acccgcacac ccgtgagcga accattgggg 420
 gggtttaata tttttttaat gtttttttga attcacacct tacctctgct ttcttgtgct 480
 tcccgaaca actacg 496

<210> 12416
 <211> 580
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12416

atgaacctga gacgtgnact naccgccct tgtaactaac ccctctccgg ttaaggcgct 60
atccgcatac ttatgaatct cccttgctgt caaacagAAC gacactccgt atgttaaaag 120
attcctttca tatcgcggtg gagcaatttg ctcgagcact ttgggtggcg gcagtgttat 180
gtccatagtc gctaagacaa tgtgaggcga tagttgttat tccccgttgt gctcatagta 240
ccacaatagg ctgtgagtgt cgtcctttta ctacacanct tatgctctta accactgtca 300
agattataca gcgccccctc atacatgtac ccacacagat attgagtcac tatgtntca 360
ccatattcta tagccaccac anaggtatga ctcagacatg gctacgcatg gggaaanact 420
tactacactc cttctggttn gtaatacgta acttgatgtg attgcgtaa gaataactca 480
aatacgtatc taaatcgtgg ccaaaattgg gtctgggtga ggaaataaac gcaagatttg 540
tgaatcctct cgtttagaat gtagggggcg gtgtgaccgc 580

<210> 12417

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12417

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accactatac ataatctctt gcatggatcc ctcccaccta tatgaacagt ggaatactcc 180
atattctctg ggcctcgact ctcagatctt atcttcttcc cgctgttga cccaccatcg 240
agtctctttg cacttttata caactcctat taaggcctta tggggaagca ttaaattcta 300
tcaggctctc ttttttgctc ctactctaac tatttctctc aacctacaga ctccttttaa 360
atcccctctc ttaaactctc taacaagaca acttctgtcc ttactatttc ttccaatctg 420
ttggcacccc acttctcttt gtcttctn 447

<210> 12418

<211> 508

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12418

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tatggttttg cttgaagtgt caaatctgac attgatgtgt caagtctcgt aatattatca 120
tagaacaacg aaaagatagt gtcattatta taaccaagt catttacaca catgcataat 180
acttaatcta gactcacacg atgttggaca aagtacataa atactctgtg tacatacaat 240
atcttgacca tgtcataatg tgatatcaga ttaacattat tcaacgtaga gcagatgtgt 300
aaaagaatta tcatgtctgt ttaactccac tacttggata gtaactataa tagatgaaat 360
gtagctgtat tatcacatgg ataaacatgc atattaatga cttgaataag gataggctaa 420
gatgangtgg acagaggtgg aaggggacagc ctagtttatg atagaatacg tatagataag 480
aggatacgga ttgcgttgag tgactaag 508

<210> 12419

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12419

tggtacaact agtattcttt aatctaccaa atcactattg gttctaacac anataagaag 60
atattattggg ttgattgcac aatgactaac actttatcag cttacagatg gataagtaat 120
ttcaacactt agtcactttt ctcaagatga acaaagtatt ttgagagctt tgtaaactc 180
tagaagaatt tccataaaga tgcctttacc caaagaatga aataatgagc gcttcaaact 240
gagcttcata ttttcaaact tcttgggtata tataaaccct cttcaatcaa gtatatgttg 300
gctctatacg gacatatttc ctctcttatg cttgagtctg aagaaaatgg cattggaggc 360
attaatgcat gtacttttca tgctgagaaa cactcttctt gttggtgtgt tgacactcca 420
caagaaacac ttctttttat 440

<210> 12420

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12420

tgagtcttag cataattgtc tcatgcgctn gctaattatt tattatgaaa ttgatgtgtt 60
 attatgtctt gatcagagca tgtgatttgt gtgtaattgt attgatgatt gaaaagtgtg 120
 attgatggat gaaaagtgaa ctttgaatga caaagtgatg gaattgctgt aattacgtgt 180
 aagtaaattt tatttggttt atatgatatg tataatctagt tgtcttggtt ctctattagt 240
 taggaatgtg ataactcact ccccggtgtg tgtttgtatt tggatcctgt gatgatcttg 300
 aactttgtgt tcgngggagc agacgactag gtgaattgat ttaaggaacc ttgtgctgaa 360
 ggacgtcgag acacaacgct ctaatangat gtggcattgn ggtataggat tntatattaa 420
 ttgtatgaag tcttagacgg gcttgtttta accga 455

<210> 12421
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12421

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 gcaccaaattg tctgcctttg tgtaagctct ttntctttct ttctttcttt aactaatta 120
 acaatcctct tgtatggatc ttacgtacct attaaacact ggatttccaa atattctatg 180
 gcgcggtacg ttcagttttc tttcttcttc ctgcatgtta atcaccaatt gttgccactc 240
 tgtcatctat atcagtcact aattaatgct gtaattgggtg aatctatatc attagtcagg 300
 ttattttattc gttggatcat taatcaaattg atttctgcat gtttaattagg atacttcttc 360
 taacanacac ctttttatat atactcttga catgaagtca ctctgtgtcc ctattata 418

<210> 12422
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12422

tttggcttta cagctcactc cttgatacca ttgtattggg tgtatcttgg tngctgcatc 60
 ttattacatt tgatatctat tttgcattgt gcataatcat attgtgtgtg aagaaaactt 120
 ttaaattaga caaatttctt agaggtaaaa ctttctgttt aattgatata cctcattgaa 180

tccatacaat aagtgtctga agtttgtaag ttaagtcttg ataggttaat cattataata 240
 tctctaataca ttactgttg ttgaacaaga tgattagtat gactcttctt aatcatacca 300
 aggaataacg atactctctt tattgatgtt atggggacaa gataacttaata gatactagat 360
 atcaatcatt acttgtcttg attgttcta 389

<210> 12423
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12423

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 ggtaatatgt ncattgttat tctttacatt tatgatttga cttttactgg cattgattat 120
 aatatgttga aggagtttaa aatgcgtaac actgattttc ataattttga ttaagtgttt 180
 taattagatt gcaagaatcc tctttccctt cctattgaag ttccattntc attttccttc 240
 atagagcaca catgggggttc atganactgc tcatttcttg ggttttaatg tggtttctat 300
 ttgttgatgg gttatgggtg gtgactttgt gtgtgatggt tgagtaatag tgggaaagct 360
 ctcatctttg gacccaatcc ctctcattt 389

<210> 12424
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12424

tcaagattta gtcttcatgt tgttcatggt gttctcccta tctctaacac tntgccctta 60
 taccaccacc tntccatct tcaccaccac attctcaacc tccaacacca ctgcctgctc 120
 aagattgact atgatgttcg tcattgtttt tatcttcaaa cctttttttg cttatgagaa 180
 aatggggaga aataggaatt ntgattgtaa aagaactaat atttttaaat aaaagttggt 240
 ttggaatatt ntcatatgat ctctcattag ttattaacta ttattattat gttgtcacat 300
 atgtcatata taattntact gtcatatatt cttcccatga ttgaacttan ngggaagtta 360
 acaacattac atttttttca ctttcttata actctaatta cttttataaa tcanaattta 420

tattggttgt catcat

436

<210> 12425
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12425

ntgaaggggtg cgcagcccac catttttcat agtagagtat ctataatgtg tctaccatca 60
cgatcatcgt ctccctttcc atcattgggg gtaccacctg ngccgccaga tccctccacc 120
ttttgggcgt gttctttgaa agatccgtcc ccctttttgc aaatgttctg tagttgcac 180
ctatccggaa ccatatcaaa attgtactga tactggctaa caaaggcaac cattaggtcc 240
ttcctagaat ggactcggga agattccaag ttaatgtacc acgtaacagc taccctcagta 300
agactttctt ggaaggaatg tattagcaat tcctcatctt ttgcgtattc ccccatcttc 360
tgacaatata tctntagatg gttcttgga caagtagtcc cct 403

<210> 12426
<211> 508
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12426

ntgaaacctg catcacggac acttaaaact cagcttaaca ttcaactgtg tgcgtctcga 60
tgtattaccg gactctttct tacttctccc tttaaaggcc ttgacgggag aatcggctaa 120
tagcttagac attcaactgt gagcgtcgcg ctatattaca ggactcgatc tgacattcga 180
cttaaaagtt attgacgtta gaattggctc acatgttcaa aattcaatgt cgaggcagct 240
cgttgtatta cgggactcaa tcagcattcc gagtactaag tatcgtcttt gaactgggca 300
catggtcgaa ttcaatcttg agcgggtgaa tatattaagg gacttcatca cacattcgat 360
gtggaagcta ttgccgttta catgggcatg aggtcaacat ccatttccat ccgaccgact 420
tattacggta cttaatcaca cattcgagta aaaatgattg ccgtgtgaat gagtcagatg 480
ttgacatcat gcccaactcg cgtatatn 508

<210> 12427

Figure 1 consists of 12 histograms arranged in a single column. Each histogram represents the distribution of the number of non-zero elements in the vector x for a specific value of n . The x-axis for all histograms is labeled 'Number of non-zero elements' and ranges from 0 to 120. The y-axis is labeled 'Frequency' and ranges from 0 to 100. The histograms are labeled with n values: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, and 120. As n increases, the distribution of non-zero elements shifts to the right, indicating that the vector x contains more non-zero elements as n increases.

taagaagcag tgtgcattta ccgaagaagt atttcggtac gctgtgtacg gaataacttt	60
atctgtaaca agtccttttac agttacgaaa gaactctttc gtacaaaatg tactgaacac	120
gaacttcttc tgtatgtaac agatctacac ataatagcgg taaaatgcgt acctcttgcg	180
aaacaaaagt agctatggag ggcgggccacc accattatct gacctgttcc aaatgactac	240
ctc	243

```
<223>      unsure at all n locations
<400>      12428
```

cgtagctact	ctcttcgcg	tatagtgaac	gcgtagcaatg	atgagtattc	aaatatacan	60
acttctattg	gacgaanaga	nngatttgaa	ccttggtacn	tcgcgaaccg	tgaccacatg	120
acactggaac	ttcgtctgga	cgctgaacag	gcaacgaact	cctttttcta	aaccatgcta	180
cgtgctcgcg	accggtccct	atctttctta	cgcaacttga	gtccacctat	tgctactccc	240
ataggagcat	gagccgaata	tttgtgtccg	cgccatacgt	ttacactctg	ccgagcccgt	300
cttggtcctc	tttgtgtcaaa	ggcgtcttgc	gagtaatagc	aattcttctg	tcccghaaaac	360
cacggcagca	cgtcactatt	acgaacaggt	gtgtatgcag	gngcaactta	gaactatccc	420
tctggcaagg	attaagcctt	tcactatctc	tgctctatga	gagctttgtg	aattctatcg	480
tccacttggt	ccgatgcttc	aanaccattg	tctttgctga	cgaccgttta	acatcgcgag	540
cgcactctaaa	ccccggtttg	aactttaacc	cttcgaggac	cccaccatga	tgcccttacca	600
atgccctaag	cccttgatct	tttgtaacgg	gattcccacc	ctcaggaccn		650

<223> unsure at all n locations

<400> 12429

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agactccaac agagattgct cccagaaatg accacgagca actcgaagct gaagtgcaac 120
ctgtagaaga agttggtatg tgtccttttc ctctaaaatt atgtgtttca atttgcaaaa 180
tcaattctta cattttaatc taaatttcat tgactaatgt gtttggtatt tatgatcttg 240
gtattcattt attgcttctt tgttttcgat attcagactt atatcanagt tattctatga 300
gtgaggggga caacgatgat gatggtgatg aggatggnga tgaagatgac gatgangaag 360
agtatgttaa tgtgatttgt catcaaaaat tctctagtca tttcaatg 408

<210> 12430

<211> 513

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12430

caacccaacc ccgcgacaac taaagggaag aaannaaaaa aaaagaaaga aatgacctga 60
acccgcacac gcacaacaac acgagccaga aggacgcca acaggacgcg gctgtacatt 120
caccacgaca aacacgaagg acaccgggaa cctacctcac acacacaaca aacagcaccc 180
gcccgcacag gcgcccgcagg gacacagcag ggaaacaacg acacggccag atcacacgaa 240
ggcaagaaga cactcaccac accaaaatca cccacaacca ccacatcgca gaaagagggn 300
cccacaaca atagcaaagc acaccacaac ccggcacgaa ccacaacgaa ggccaccaag 360
aagaagcggc nnncatannc ataccatncc tcattcaacg aagtaaccac acccccccaa 420
cacaccaaac gaaaaaaagc agcactaacc aacgcacacc tccgacaatg agcgccgacg 480
aaccacaaga gaacccaaca ccccgaagca acc 513

<210> 12431

<211> 693

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12431

gggtcttgag agatgcgctg ctctgtcatg cgattacgaa agcttgtggt gttccantac 60

ntacaaaagt cataggacga gncgaacttt gggaccttga ataccgtcgc ccctccgag 120
 acaccacatn anactaatgc ttatgcacgc ccagttcgcg gcatcaaggc agcatgtatg 180
 catgcttaca actctgaaca tgcacggctg ggggtgattac tctancttgt gcgtgtcact 240
 catcgcgcat cacctgatag aagcgctcta ttccagagtg cngacagatc acaatnattg 300
 atgagcaggt cactgtatat ccacgaatat gtgtgagtag cgaagatcgg acgagacaat 360
 gggaacacaa tcgacacttc gttatcacgt catcgctcgt ancgttcttg attggaatct 420
 ctctgtactg cacgcttcgc ttacgccgtc ttgtcttacc tttgtggtag gaagacacca 480
 agtatgagtt gtcatgacaa gctgactcta tccctcttag cgtcgatata tatatggtag 540
 tattagtagt gatataatcg aatgctagtg agtcgaccag atatctctct cacataatca 600
 aacctactca cctgcatcat aacttggttt cctgccacca tatcctctgc gtcgactgca 660
 ttgacaacca ccgtaccac cgttgtcatt ccg 693

<210> 12432
 <211> 553
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12432

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 agtgaacttg aactgtcgcc tcggacacaa gaaactcaaa ctgtcgcaag agcgtcagct 120
 tggcancacc ttccgttctt tgagattaga tagtggacca catgctctc ctagtgggaa 180
 aagcccaact gaaaagccat ttttgttact gaatgagcgg acatgggtga taccacagag 240
 agactctttt gtgtgggact accagctgca ggtcctcaat atagatgggc gggagacaat 300
 cactatgacg ttggcacact caccacagag tgtgtctcaa atcaccactg ctgaataatt 360
 caccctgga tcaaactgag ttgtggatgg caaagtacta cacacgttac tattctaatt 420
 gtttggatgg attatcaaga agacatccag agatggagat aagtgattca cactctctgc 480
 tctggatatg acgaatatca tcatgctttc tagtgaagca ttgtgctcta tttgttagat 540
 attggagcag ccn 553

<210> 12433
 <211> 461

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12433

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aaataactta ccttgattnt ataaattcta taaaaataaa taaattattg ttatatatat 120
atatacactt ttttaaaagt ttaaataaat gcactctaaa tttctaatta gccttttagag 180
tgagctgagt atgaaagtaa aatatgtttc ttctaccaat gaggttcagt atccttaaag 240
ctgttgacag tctcatgatt tccccgcgtt tgaagatata tttctttgga aaaaacaaat 300
cttcttataa caatcgcggt atttatgcat gtgtttcata taatactact ataatatatt 360
tcttataata attgngatat aaatttagca ttcgagcaac tgcaatgtgc acaacctatt 420
atttangata aacaattact ttgtgtttca ataggaaatg a 461

<210> 12434
<211> 384
<212> DNA
<213> Glycine max

<400> 12434

cactgtatag actgctggtt ttatgtatta cagaccaagc gatgtgaagt gttaaccgcg 60
catattggta agactgacaa tctcttctct tctttttctt ctcatctctc tcagtcgaat 120
tcttcaactg aaaaataata ggaaaaattc cgtcaatata aatttgcaag gtagaagaga 180
atatataaaa aggttggtgc ttaacgatca gactcaccat aataacaaga atccggacaa 240
aaactgcgac caaatcggtg aacaaggta aggcatgctg tacatagtcc agatcgccca 300
agtgtgcct ctcaacctat tcttgggtgt ctactacaat gtaacctaca aacaccaata 360
gcccaaagta caactgcaac acca 384

<210> 12435
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12435

actgatatgt cagatgaatt tgaatattac tntcatctca acagaggaca acgtcaatgg 60

ataataggtg tgcttttatt cttatgccga atataaatgt tattgctatt gtcaactgtt 120
 tggctatcaa aatataaggt ttatttgatt cttaaagtaa tttctatgct tttgcttctc 180
 acaccctctc ttttaatttg agtatatgca ttaattnttt attttttatt tttggtaatt 240
 cttectgttc cttttcatca ttactcatca tgtgtttttg aattgatagg ccggacttaa 300
 gtgtcattga cctctgattc tccatgtgga ctctcagagc aatggctctg aatcatcatg 360
 aaacctgcat tggaaatcag cattgcctct tcaagtcgcc caataaacag actatgtggg 420
 atggacctat ctttaaattt cg 442

<210> 12436
 <211> 552
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12436

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 annnttganc cttgtnactc tngaactctcc aactcagctt tctttccttg cttacgaatg 120
 ctgagtectg caatactagt ttaacaggcc ccattttata ttagaaataa ttctgaaggc 180
 atggatcaac caacctaatt aacttggata ggagacaaac aaccaatgtt ttacgatcca 240
 caattgacca ctagatgcgt catgtactgg taatcttaca gcccctggta taacggtaag 300
 cgtgctcact gctgttattc cttttttgaa gtggaataca atcattcctg ttgacctctc 360
 cttttttcat ataaaatttg gatataaaag gaaaaaaagg accttacatg gcttaatttg 420
 tcaaagaaag actactccaa taatgggttt ccatcatttg aatttgggga ccataaacct 480
 ctctggctac caaataaaat tgaataaaga aaccccatc accattaaac cagagaccac 540
 cttttttagt tg 552

<210> 12437
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12437

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 cttctacatg ctttggtcga gcatgctaaa caggattatg agctatgctg atagttgatt 180
 tattatcaca gtatggtttc attgggtccat cccattcaat cttcaagttc tttatggaca 240
 caccaaattg actttttaat cgttgagaag atattntaaa agacattgct ttcttcagat 300
 ttttgtttaa gaacaaaacc caagtgatct gggtaaatc atcaataaaa gtcataaacc 360
 agcaagcccc tgaatatttt gaataggaga tggccctcan acatcagtat gaacagaata 420
 aagaggaaat atacttttc 439

<210> 12438
 <211> 250
 <212> DNA
 <213> Glycine max

<400> 12438
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 ggtgctattg cccaaaacca aacttgacca atcccgaccc aacctatgca tagtcagtca 120
 gtgagaacct gtgatgtacc taaacaggca agctcctggc agtcaacaga ttaaaggaac 180
 aaagaccaca aagcatggag gcttgtgtgg tggtttggca gctgtgaatc ttgtgtgata 240
 tatgggggtat 250

<210> 12439
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12439

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 gtcaaaagtg ccaagtctgc accaccacca agttcttaac cacaacctgt tacacatgtc 120
 tttgaggatt agaaagttca ccaacttggg gagatttcaa gtgatgatga acattatggt 180
 gtatgtgaca ttaattttgt tagtttatat ttgtaggga tttttttttt tgggcgaggc 240
 aataactaac aaaaaagtca agtgatttga aagatcaata cctgttacat gaatagcact 300
 taaggggatc caaagtctga aaaagttaaa ctattactaa tgtaattcan aggaaaataa 360

tgcaatcgac aagattgact gaattatgtg cgagattggt tttctaacac aagcaacatc 420
 tgatg 425

<210> 12440
 <211> 383
 <212> DNA
 <213> Glycine max

<400> 12440

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 tgcactctacg cctgttgcaa gagtatgtgg tctatgttct tctgcagatc accatacaga 120
 tctctgtcct tctttgtagc aatctggagt caatgagcaa cctgaagctt atgctgcaaa 180
 catttataat agaccctctc agtagcaaaa ccaacaacag tagaataatt atgatctttc 240
 aagcaacaga tacaatccag gttggaggaa tcatccaaat ctgagatgga caagtcctcc 300
 ataacaataa cagcatgtcc cttcctgtca gaatgctgct ggtcctagca agccatatgt 360
 tctcctcca atgcagcaac aac 383

<210> 12441
 <211> 186
 <212> DNA
 <213> Glycine max

<400> 12441

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 taactcactt agcttaattt tattgccttt aacacacatc catatataca caatacaaga 120
 cttgatgaga aaacagcttg atgggacatc acaatgttgt cttctgaaac aaattaaaca 180
 gaaaat 186

<210> 12442
 <211> 64
 <212> DNA
 <213> Glycine max

<400> 12442

ttgagcctag atactgactc accatacacc ttgtatcccg gtgagaatgc gcatcgttac 60
 cctc 64

<210> 12443
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12443

tcaacatcag accacttcca ggggtgctgga actacttcac atggatttga tggngcctat 60
 gcaagttgaa agccttggag gaaagaggta tgcctatgtt gttgtggatg atttctccag 120
 atttacctgn gtcaactnta tcagagagaa atcagaaacc tttgaagtat tcaaggagtt 180
 gagtctaaga cttcaaagag aaaaagactg tgtaatcaag agaatcagga gtgaccatgg 240
 cagagaattt gaaaacagca ggttcactga attctgcaca tctgaaggca tcaactcatga 300
 gttctctgca gccattacac cacaacagaa tggcatagtt gagaggaata acaggacctt 360
 gcaagaagct gctanggtca tgctccatgc caaagaactt ccctataatc tctgggctga 420
 agccatgaac acagcatgct acatccacaa cagagtcaca ct 462

<210> 12444
 <211> 442
 <212> DNA
 <213> Glycine max

<400> 12444

tgaaggacat gcacaaagtg tgactatatg atgtggcaat ggtgtgtatc aagcaaattgc 60
 tcacctcccc cttaggctgg accaaacttt aattgggttg ggcttctccc aattcaatta 120
 aatttatctc ccaacacaca tcaaataggg cacttaattgc atgtgaaatt acaaaactac 180
 ccctaattcca gaaactagtc taggtgccct ataatacaag agctaaaaaa tcctacatta 240
 ctagggtacc ctccctacac tatggagccc taaatacaag tcccataaat aatgaaatcc 300
 taatctaata tgtacaaaga taagtggctc catacttagc ccatggaccc aatcttcttg 360
 gagtcttcta tccaataccc tcgagggata gtgatgtagc tccatgtgga gcttgagaac 420
 cttgatcttc ttcatcaatg ga 442

<210> 12445
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12445

acaacaagtg gagcaatata tgtgtcact acacgttgtc gttgaccact atcactaccc 60
tccctacatg agagcctaga cgatgggact ctgacacttn cttggatgag tacaagaaca 120
cgtctctgta cgtacatgct atcaacagat gaatggcctc atgaagatta cactgaagat 180
gcattcatct ggatataaac tgcacaaggc actctacacg tgtatgcgga actgtatcag 240
actaccaaga tgatactcgt gatggggagt ccattttcgc acgcatatat aggattacta 300
cgatggacct tatccacgga tattacttga ccgccatagg atgaacaatt tgtgtcttgt 360
taagccatga tagcatagct attgctgttc acctcaatta cactacttga agaaccaaca 420
ttcttttgtg cagcgcaata ttatg 445

<210> 12446
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12446

tctggtgagg catcttgact tgctgtccaa tctgacattc accacagatt ctgccttctt 60
ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120
ttaagtgcag atgtccaaat ctttgatgcc atattttgac ttcattcttct ttggagaata 180
gacatgtgga ggagtaactg gtttcttgag gtgtccatag gtaacagttg tcctttgatc 240
tgctgccctt cattaagact tcactcttct catttgtcac caagcattct gactttgtga 300
agtttacatt gaatccttca tcacacatac gactgatgct gatcaagttc gcagtcagtc 360
ccttcaccag cagtactttg ttcagactan gaagtccatc atggactagc tttcccatc 420
cagtgatc 428

<210> 12447
<211> 317
<212> DNA
<213> Glycine max

<400> 12447

cgcttataa cggctcctct tgcttatatt ggtaaaatg gaccattcaa agcataaaat 60

caacatataa atttatcgct ttgcaagaa ctacgtagg atgattttct catcacaatt 120
gaggatacgt aggagcaaaa gcccacttt tgtcgaccac cccaagagat cgtaattat 180
ccaacgcctt aacgcttctc tcatttcaaa aatcaagaga tcattaatgg tccaacgcct 240
taatgtttct ctcttttcaa aaccaagaaa ttgttaatgg tccaaacgcc ttaacgtttc 300
tctctttttc aaaaatc 317

<210> 12448
<211> 509
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12448

ntgaacctct gcacattgaa ctatgatact cagctatcac tggagttgaa gagttttgtc 60
attgccgaaa tcattcacta ccacagatgg cactttttcg cccttggtgtt aaatgtgtcc 120
accggaggcg tcattcgctg gatgacctta tatcgcatct gatatgtgat ggctttaacc 180
cgacgtacac caagtggata tggcatggtg agttggttgg tcatacagca acatgtccac 240
cttatccggt tgatctacaa agcggagatc tcatggaaga catgattcgt gatcttgggc 300
caaagggctt tcgggaatgt catgcagata ttacgatgc tcttcanaca gatgcgcata 360
cgccatttgt tggatgatgc catagcttta ctatggtatc agctgtgcta acttttgcta 420
acctacaagc tcgattcagg ttgagtgacc aaagctttac agagttgggtt tgttatggaa 480
atatgtttcc tgacataaca gcttaccgc 509

<210> 12449
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12449

tttttttttt tatctggttt atttcttatt ttcattnttt ttatttatct catgaatctc 60
tgcatcaaat caaattaaat taattttttt cttaatttat tattcaaat agtaatttct 120
actttctatt caaatgttta ggtttcttcc atggatatta attatcttta aatattaatt 180
tataaatcaa ttgatttata gttacaaatt acacttatta tatatatata tatatatata 240

tatatatata tatatatataa tttcatttat taatttatat atatatatat atatatatat 300
 atatatatat atatcatagt aatacctggc cttaatttaa aaaatttatt ttcgcatctt 360
 ttaa 364

<210> 12450
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12450

tcttttaccg taagagatgt gttccanatt atctagctat cacaatcatg ttgaaagcta 60
 accaattgat tctgaacatg tacttcccaa tcagtgggtga caaggggtgac agcattaaag 120
 catcatacct ccatcatctg gatctattga agaagagtgc cgcagttgca gagatcacga 180
 gaaagttctc aacaaatgag aacactntta cagtangagg gtcttttgct gttgaccctc 240
 tgacacaggt canagcaagg ctcaacaatc atggaaagct cggggccctc ctgcagcacg 300
 agatcatacc anagtcagtg tttactgttt ctggtgagat tgacaccaan ggccttgata 360
 aaaatcccag gtttgattg caattgccct caaccttgag gttttattca tttttagaaa 420
 gtgatcgag 429

<210> 12451
 <211> 488
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12451

ctcaagctta tccatgatgt cttcatcaa ttctttcacc ttcaaacctt ctgttttttt 60
 tntactaatg acaaaagggg gagaagttaa tgaaagaaat ttttttaagt aaacactagt 120
 caatcaataa aataaggcgt tttgaaagat atatttgtgt ctacgggtac atccactcat 180
 gcacatacat attatactta aggggagcta aaagctatca aagatagcat tctgatgcgt 240
 agacattatt ctcatatata cttgctatat tcactactca caatttatac agcttgatcat 300
 catcgaaaat tgggagattg ttagacacca gacgatccat cactagaaga cccaaccatc 360
 ttttacgatc ttgatgagaa caaatatata atattatggt aaccactttg ttgcatgtga 420

gtcaacacgt ttgatgactg gaagctacac caggagaaac ctattcacta ctagataact 480
cacctact 488

<210> 12452
<211> 249
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12452

tatgcttggt tcctaataca aaaaattgaa accaattatt gtaaggatta atagaataaa 60
aatgcataat cgtgataacc ataaccgaat gaaaaattct aaaagggtcat gagcttcact 120
tctcgaaaaa actaanacaa ctttataagc attatagtca ccatttgga cacataaaaa 180
aacacttagt aaggaaatca taaagcaacc tcgacattaa taaataggaa atataacttca 240
caaatgat 249

<210> 12453
<211> 428
<212> DNA
<213> Glycine max

<400> 12453

gcacctctta atgaaattgt ttaagaaaa atgtgggggt taaatggggg agaaacaaga 60
gcatgcattt actgcactca aaggaaaatt gactcatgta cctattcttg tattacctaa 120
ttttaccaa tcttttgaaa ttgaatgtga tgcattcaat gtgggggataa gggctgtttt 180
aatgcaagaa tgacatctca ttgcttattt tattgaaaaa ttgaatgagg gtgtgcttaa 240
ttattctaca tatgacaaag agttttatgc attggtaagg gcattacaaa cttgacaaca 300
ttaccttttg cctaaagtat ttgtcattca tagtgattat gagtccttga agccattaat 360
acgacaagac aagctgagca agagatatgt caagtgggtt gagtttcttg ataatttcct 420
acatgatc 428

<210> 12454
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12454

cgtcatttaa gagcttcaca tatatttggn gattttcgca ctctacccca aatatcattc 60
tacattgttt tcaagtcctc ataatcattg tgtgctgtg aacattctca ccataaatca 120
taccttttct acattgagat cttttaactc cttttgtata gcctcaattt attttctaaa 180
atattaaagt tcctcatcat agcatcccat tttttggaaa ctttgtcatt ctctagaaca 240
agctctctct cccttgatat caacgttata taagcttcac tgttttgagt aggtggtatc 300
acagaactta tatttttagt tcgatgggtc tatttaagct tagtattatc tttggacagt 360
ttcttaaatt cttctcaca g 381

<210> 12455
<211> 274
<212> DNA
<213> Glycine max

<400> 12455
tgaaggacat ggcctactg tgaatatatc atgtggccct gtcgtgaatc agacatatgc 60
tcaccttcca ctcatgctgc agcacacttt aatagcactg ggctactgcc aattcaatta 120
tagttatcta ctaacacacc tcagatacgg cacttactgc atgtgagtat cactaaacta 180
cccatagacc ggagactact ctatgagccc tatagtacca catctaattg aaaatacatt 240
actaggcgac cctccctact ctatggagcc ctag 274

<210> 12456
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12456

taatatatcg agactctcga aattgaacaa cggaagctat cgagaaattc aaatggtcaa 60
tacttcgaac tcggagggtcc tattaagggtg cataatatat ctaaagctc aaaattttac 120
aatggaagct ctttggctat acaaaggtc ataacttttc actcgaaggt ccgattaagg 180
cgcataatat atcgagacgc tcagaattga acaatggaag ctcttgagca attcaaattg 240
tcataacttg tcaactcngag gtccgattca gctgcataat atatcgtgac gctcgaaatn 300

gaacaatgga agctcttgag caattcaaatt ggtcataact tgtcac

346

<210> 12457
<211> 465
<212> DNA
<213> Glycine max

<400> 12457

tgtccaaaga ttggttcatt aacttattct tggacaaaaa ctggttcttg agccacaatc 60
attagagggtg ataaccttta tgtaaacttc aaaacattaa aggtctttta gtgtccatcc 120
catgttcgtg atttgttatt taattggaaa cttgagcttc atcaagttaa atcatttttc 180
catgactagc tctacaagaa gtttcctttt tagaaatgtt actcgtcttg ccacaagcac 240
tgtatggtca gaaggttggt ataaacaata tttcataatt tctttgggat acccaatgag 300
tctacatttc tcataccttg gctcaagtgt gtctatttgc aatctcttaa tgtaagtggg 360
acaatcccaa gccttggtgc gtttgagatt cattctagcc ctttccatat cacatatgga 420
gttgtagata tacttttcta agacatgatg tatcacatac acttt 465

<210> 12458
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12458

gagcttgaca agctgccata gcagcaacaa catattctgc ttcacatgtt gacaaaacaa 60
ctagactttg cttctttgag caccaagaga ttggtgatgt tccaaatttg aaaacatacc 120
cagcagtgtt tttcctgtca tccttatcac cacaccaatc tgaatcacta taaccaaaca 180
attttccttc tatattcttc tgactgtaaa gatataaaat gccaatgccc aatgttcctt 240
tcacatacct cagaatcctc tttgctgcct ggaagtgagg tgtcttggtt tctccataaa 300
cctgcttatc aaccaaacac aataggcaat gtcaggtctg gtgttacata ngtagctcaa 360
tgagtct 367

<210> 12459
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12459

cccatcacat gtggtactat gtggcggtcg ggcgatggtg cacaacaagt gttacacatt 60
cacaatgcgc gcataaaccc accatcctct gttggccacc tgcaactgag ctacagtact 120
cccacgtagc ccatattctc gggtctctca acaccgggtg cccatcaatc cttccaagct 180
ttcacaacat tcaagcaaaa caacattcaa acagcacaaa ctaccacagc caagaaaaca 240
gggcaaaggc agaaaactct gctcaaacac caacaaaaaa tcacagcttt tctcacttat 300
agaccccagt aacaattcct tccatccaat tccgtaaccg gtggatcgac tncaaaattt 360
tactggaagt ctctagtaca taagcctaca 390

<210> 12460
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12460

tcttgggggtt gcaacagggg ctaggactat ggaccaattc catatttggc aaaggcatca 60
taattggaat tctggacacc ggcataaccc ctgaccacct ttcgttcaat gatgaaggaa 120
tgccactccc accggcaaaa tggaatggcc gctgtgaatt cactggggag aagacttgca 180
acaacaagct cattggtgca agaaattttg tcaaaaaccc aaactcaacc cttccactgg 240
atgatgtang tcatgggacc cacacagcca gcacagctgc aggaagactt gtgcagggtg 300
ctagtgtctt tggcaatgct aagggttcag cagttggtat ggcaccagat gcacactntg 360
taatttaciaa gggttgtgac ctctntgatt gttccgaaag tgcaatacta gctggaatgg 420
gcactgcaat acctcacttg gaggaccatc tgttcctttc tttga 465

<210> 12461
<211> 123
<212> DNA
<213> Glycine max

<400> 12461

gctgaagttt cttttggtga aggaaccatg gaaaagcaga gcgtttggaa tggtttaacc 60
aatttctgag aactgttggg ggatgctgaa aacgagatta tcacgaatat ataagtttga 120

atg

123

<210> 12462
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12462

tgccattcac tgnnactttt atattattct attctattaa gttttnttta gaagattggt 60
ttattaaggt taatttagtg gtaaataaat aattttatga attacaagtt taaatttctg 120
ccataatata caaaaaagta tatatatattt attagagatt ntatgtcgaa ttgtaatata 180
cataaaataa agtatataaa ttgaaaataa cttttatatt tagaggtaat ttttaagatt 240
aagctagaat caatccgaaa ttgttggtt gtataacaat ttatcatagt aattattggt 300
tggctaataa ggctcttccc cttattggat tattattaga tcactctcga ttgtgtaatc 360
ttataatttc acgctctaaa tatntttttt ccacgtgaaa atagtgtatg agagagctca 420
cattaattag taatgtgatt agagtanaac atatatgtag aggat 465

<210> 12463
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12463

tgtagatcaa tggagtcctt tngaattact tatgattcag aagatagaca ctatgttnta 60
cctccatcaa gagtactcag ttgaaattca tagttcggtg gagaatataa ctaccaact 120
ggaaaacatt taaactaggc taacccttag caacctcctt aaccctaag aggacgacac 180
ttagttgtgt tataagtgat tgtcgcaacc tacccttcaa cgggagggcg aggcgaaacg 240
taatagtggt tcttctcatg atgaaaacac atggagtcctt caccaacaat tattcaagga 300
aaacgttaga aaaacaaaaa agaggggtgt aaatgatgaa nataaagggtt cgggagttgt 360
ttacgcttgg ngaagggtatt agcaccacac acgcccgcac aagagactgc agcctttaat 420
cgagtgtgca taacatgnac ttcaaaatat tacttttctt ctttatattt ttat 474

<210> 12464
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12464

tgaaccacaa accggtgaaga gtgtgacctt aaactatgag tgaacgacta gttgtgagta 60
 ataatctttg catgaatctc tgaattntag aatgaaatgt ataaatgagg acatgatgaa 120
 ggccatgggt gtacatacac aagttctctg accaaatagc ttaccttgaa tgatacttgt 180
 atcttttgct cctgtgtata aagcttattg atttgtcatt aactgaacgc tgaactntaa 240
 atgattatct cctaatacct tgttttagatt ctaggagagc atatgcttca aggaaaattt 300
 actctaaatt tgggggagaa aagttgaaaa gaatgaaaag aaaaaggta agcatcagca 360
 cacacaacac ataagttgta tgttaaaaaa aaaagagaaa aaaataagtt gtgctggtac 420
 aat 423

<210> 12465
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12465

ttaacacttc ttggcaaaaa acttanatga tgtttaaatt ccaattattc acataaaaag 60
 gaagaattaa gagagaaaat ttaacaattt ctacataatt taatcccaa atatacctat 120
 acatagcagt tatcagtgat tcaaaatgca agaagaatga taaagaaaag gttaaagatg 180
 atgattacga ctacaaacct gaagatgaag gagaaattgg ttcaaattgt ttaactaaac 240
 aagataggga tgaaataggt gatgggtcca tcattgaaaa tgcttttggg taccaaaaaa 300
 gaaaggtag tcttgaaaaa ttgtcaacat tgcttttctt ctaaactatc tttttggaag 360
 atactttntt ttcttttcta nattgtatat tagaaaagat aaagtcctgt gttactattg 420
 taaattctag gtatctcatt attacataat tntatcatc aaaacataca acat 474

<210> 12466
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12466

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cttgagtaac cttcaciaaag gagaaatata aaactataaa ttcccataaa ttgtataagg 120
catgtgcttc catgaaatgc attttcaaag caacaataat ccataacact acgaaaagaa 180
ggttcccaat ttgactgaac ggaatacagt cacatcagca ttggattcaa tcagacacac 240
ataaaccatt tccaaccatt tcttagaatt tcacccttcg aaaattcgtg atcttaatgc 300
caaaaaaatt caaatTTTTT taaatgggtt gtctaaatcc gacggatgaa aacattanga 360
agtgaagatc agcgaatcan gcattgaaat tcttgagatc ac 402

<210> 12467
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12467

tgcttgtagg gcttctatgg aggcctggatc tttgagcttc aatgaggtcc ttcaatgggtg 60
attntacacc atggagatgc agcgggaaggc aaaggagaag aggagaaggg aggcaccatc 120
cactatggaa taagccaagg aagaaggagc ttcaccacca agaattgtct tggataagaa 180
gcttgaagag gatgctttaa tggagaaaaa gaaagagaga agggggggagc acgaaattga 240
aggaataata gagggagaga agttgatctt tgagtttgtt ctacaagac tatcattcat 300
caaagttcca acaagtgtta cacatgtttc tatttataga ctangtagct tccttgataa 360
gctntcttaa gaaaaacttc ttgagaagct tctttgagaa aaattccttg agaagctaga 420
gcttagctac acacaccnt ctaataacta agctcacctc cttga 465

<210> 12468
<211> 448
<212> DNA
<213> Glycine max

<400> 12468

tccactccag ttcccatacg agtacctgac ggggtgtgatt ttcaaactgt aaaaaccaga 60
atacacaata cccttaagct aaccgacaag caatttttgg atgaaattta ctatcggcag 120

cctttcacgt atgcaggtaa tcaatttcgg tttcaatgta tgcaactgat agatgatgct 180
 gatgttaaca caatgttaat gtgtaatcat gaattctcat ttgttggttc gattgagtta 240
 ttatgtagca ttgctagaac cccaaatggg attttaaaca tacttgaagc tactatgacc 300
 cctactcatg atgccttgc atattacaat gggagggtgga acatgtcacg ccaaaatgag 360
 tatgttggtt actcgctcac agggaaaaat cccaaaactc tgacattcca tcggatgccc 420
 atgggtgaact gaaggattga tcacaagt 448

<210> 12469
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12469

agcttctata taaggtttgt tcttaatttc tctacaattg catcacctct caatgagctg 60
 gtgaagaaga atgtggcatt tacctgtggg gaaaaacaag agcaagcctt ttctttgctc 120
 aaagaaaagc ttactaaggc acctgttcta gctcttcctg acttttctaa aacttttgag 180
 ctagaatgtg atgcctctgg agtgggagtt ggagctgtat tgttacaagg tgggcaccct 240
 atttcttatt ntagtgaana acttcatagt gccgcctca actacccac ctatgataaa 300
 gagctttatg ccttaataag agccctccan acttggaac attaccttgt ttccaaggaa 360
 tttgtcattc atagtgatca ttaatcactt aagtacatta gagggcaaaa caagttaaac 420
 aagaggcatg cataatgggt 440

<210> 12470
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12470

agcttctatg tgatcaatgt gtctatcatg tgttcaacaa tatggatgag gactccaagc 60
 ataccttaat agttaaagggt tcaatagttg ctaaaaaaca aaagtttagc aaaactaacc 120
 tgaaggctat gaacgtggcc ttggaacaaa cctggaagga ggctctagaa gtgggcgtgg 180
 aagccatcag atatcgaaaa caaaaaagat tggccaagtc cattgttgaa tntgataaga 240

tagaaatgaa tattccaaca tgtacgatgc attagataaa gagtntgtgt gtgtaagtat 300
aggataatat tgtattaaat attatgggtg tacaatgaac aaaacatatt ctaagtttta 360
caatgaatta tatgttntga tgtaacatcc tcagctctac atcttagtca tcaagctgat 420
agtataaacg catatgata 439

<210> 12471
<211> 204
<212> DNA
<213> Glycine max

<400> 12471

tttgctttgc atgctcgggc cactgcagtg gacggaacta tgtgggtact gatcgacgca 60
tgctcgatga tcctagtagc atgacagata ctgctgacgc ctcttgagag agcctgcaaa 120
ctggagatgc ccatactgtg actgttggtc atatactgcc aagatctgca catgaccgag 180
gaatagtgtg tctctgactt tcac 204

<210> 12472
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12472

agcttaggat ttcattctct tatcttcaat gcaaggaagt atgacttatg cctaanaatc 60
taaatttttg ttttgaaagt ggaaaggcgt gaaaattaag acatgcttga gagggttttt 120
actagaatth ggctgccccca tgagggatac tttgcatcta ggtagcatgg aaaatacctt 180
ttaatgggat gtatatatgt gtgtgaatat aggtagcatg gaaaatacct ttcaatgatg 240
tgtatatatg tgaatatatg taacaccctg atatatatat ctatatatta ttagtaatta 300
atgttgatgt ttgattatth gttgcgttat tttcatcccg taattattht aagggaagtt 360
aattagttaa tagagggggt tggatagata aggatctaac ttctc 405

<210> 12473
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12473

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agcttgtcat cttgttacat cagaggctag tattttaata aatgtgggta ggaaaaattc 60
accanattga tagagaaaaa tctaaaatca tacatcttag gcaaataagg catgctagcc 120
cccaacatta ttgcatntg attccatctt tggacattca aattgttgtt tatttttctt 180
gttatctttt cctttgcctt agtctaaatt tcaaacttac aattcggtat ctctttcttc 240
ttttgtttct cctcatttct taataattgg atttgcattca ctttaagtaca accaaagtcc 300
ctctggattc aacagttgaa cttcaatttc aatctttact acttgtgata aaattaagac 360
actngtcaat ctattaacaa gtttttggca ctgttgatgg ngactntggt tntcgtactt 420
ggttgttaca aatcccaatt tg 442
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<210> 12474
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12474

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agcttgcatt attcacattc tccccctttg tcaagcaaatt tctttnttat atcatcaaaa 60
cctgcatgat ttacattctc cccctttttg atgatgacaa gcattatcca aggcttgatc 120
tttttgacat catcaaaatc ttcatgattt acattctccc cctttttgat gatgataacc 180
acctataagt taggagcaac aacaaagaan aaatatctat ttgcatatag ttactcccc 240
cttggttntg gaatgtttgc ttatatgaga caattgaaga tttcatattt ttcatatata 300
aaaagttgtc tcataaagaa tagacattnt tccttactaa tttatcttgt atatttctct 360
ccccctttgt caacatcaaa aacaaatcat gaatagagag gagaaaaatg ttaccacttg 420
ttgtaatgta taanaatcaa gt 442
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<210> 12475
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12475

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 gtgcgctcggc tttaatgact agttcggaat tagagtttgc accacatttt attataaatg 180
 gtgaggacga gcctgtatta aattggagta cattccactg tgcaacgtca gtttcagatc 240
 cagagcccag atctgttgat ggcttgcgac catgaganat atcttgaatg gngtcatctt 300
 cttcaggaat tgactgtatg ataacaaaat aaaggatttg ggcatcaaag aaaatcaatc 360
 canattcatt ntcacagtg cagttcttta gcatatacct aagctatagt cacaaacagc 420
 aaagtaatca a 431

<210> 12476
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12476

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 caaggaagtt ttctcaagaa agcttctcaa ggaagctacc tagtctataa atagaagcat 180
 gtgtaacact tattgtaact ttcacgaatg agagtcttgt gagacatact tcaaagttcc 240
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 tntcttttcc tccattgaag catccttcca agcttcttat ccaagggtca tcttggtggt 360
 gaagctcctt cttccatggc ttattcccta gtggatgacg cctcctctca cctcttctcc 420
 tttgtctccc gctgca 436

<210> 12477
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 12477

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 atattatata ggggtctctta catgaaatga ggtatcatat ttgtggaatc ttagtaaaaa 180

aatagttggg tgaaagacta caactcgtat atagctagtg aataataagt tgtcatcacg 240
ggccactgaa acgattaagt gcgtagggtc caatcaagct gaaatatcac atcatgatgt 300
tgataggcgc gtgcttgatg ccggatacat cacgtgtaag agttcatttt atgtatcttc 360
ctctattatc aaatatgatt gtggcaagtc attacagttg tgggtgcagca gtattagcat 420
cccttt 426

<210> 12478
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12478

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cttgaggag gcagagccat acaactagga tcggcaaact tgtgatctat ccatcattat 180
ttcttttagt tattctatta ttctgttatt tcccttgta tctgacatta tctgcttcca 240
aatattatgt ccattgtgat tgaactgcac atgcagttat ctgtcgcatt gtgagtaatt 300
taaccgcttt ggcatatggg cgtacttact ntacgatgat ttgtctgaaa cacanaaatg 360
tgtaagtctg gtgtactttc gttcacacac tttntttcaa taaaatgtaa tctcgggtat 420
caaccgtacc ca 432

<210> 12479
<211> 319
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12479

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agtacgtgag cttagttgaa ggtgggcaac tgaggatggg gggttcatgt gtgatttTgt 120
gatgtggaga gttgattTgt accatcgccc gatcgccacc tattaccaca tatgacgggt 180
accccataat cctacaagct tgaagtgata cagtgtggaa gagtcagtct tctactttt 240
attcgtagac cacagagtgg tacctggaga tatgtctcgg cggtcaggag accttggggg 300

cgtcaggtgg ggtgctatt

319

<210> 12480
<211> 381
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12480

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tcctagagaa gctagagctt agctacacac acctgtctaa tagctaagct cacctccttg 120
agatgagaag ctagagctta gctacacacc cctcataata gctaagctca ccctatgaca 180
taatagatga aaatacaaaa gatgtcccta ctacagagac tactcagaat gccctgaaat 240
acaagatcaa acagaatggc aaaatcaagg cccaaagatg gaatacctat tcgatatttc 300
aaagagagag ggtccacctt ggccatggct cagnatctac ctgagtcatg aaacctaggc 360
ctcttatagc ttagccatcc t 381

<210> 12481
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12481

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tcttacatga gggatctgcg aatgaagctt ggattaattc ggcctaacga gggattgaag 180
gtttagtaat ttacgggtata acatagaaca caagagcatg attgattata gaaatatatt 240
tctatgcac aacttatctt ttataaagac ccaacatttc taccactgc tgcattttta 300
tttaccttgc attgtatatg ctttagcata atagtttagt cttaaattctg tttganatta 360
tcactcttac atgttctctc aacatgcttc gattctgaac ttaattcaag ttaacattag 420

<210> 12482
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12482

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accaagaaga attaaatcta gccatggccc acgagcacia agtggcgggc gagtatgccc 120
gagtgtacgc agaataggag gctagaggaa gggatgatcga ctcgttacat caagaggcaa 180
caatgtggat ggaccgattt gctcttactt tgaacgggag tcaagaacct ccccgattgc 240
tagccaaggc caaagcaatg gcggacacct actccgcccc cgaggagatc cacggacttc 300
tcagctattg tcagcatatg atagacttaa tggatcatat aattagaaac cgctaggaag 360
ttngtattgt cactcagatc ttttataact ntctgaataa natgagttta tcccacgttt 420
ttact 425

<210> 12483
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12483

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ttgaaaatat cctttatgat ttttccataa tgttctattt tagtttgccc tataaatcct 180
tgagcttgac ttgattttat tcattttttc ttccataaac tactttcagg ttcttatctc 240
ttcatntttt atttggtggt tctctcattc tctatcaatg ttgtgagtggt gtattgatat 300
ttttttctat tttatttatt tatattntat tgtacgttta tgcttatcat tntctacatc 360
tacaacttca tatttcatca ataaaataag tgtntaatg catgatgcan attccaaatc 420
acaatntgct ttattctaac 440

<210> 12484
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12484

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atatatacgag ttgctcgaaa tggaattccg aagctctgag canattcaaa cgacaataac 120
 tntttactcg gatgtctgat tgagtcccg aatataatga tttgctcgaa atggaattcc 180
 gaagctctga gcaaattcaa acgacaataa ttttttactc ggatgtctga tttagtctcg 240
 taatatatcg agcttctcga aatggaattc cgaagctccg agcanattca nacgacaata 300
 attttttact cggatgtctg atttagtcct gtaatatatc gactgtctcg aaatggaatt 360
 ccgaagctct gagcaaattc aaacgacaat aactttttac tcggatgtct gatttagtcc 420
 tgtaatatat cgagattct 439

<210> 12485
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12485

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 ttgtgagcta actgttggtg gttgtataca atcaccagct gccccctgaa taagctctgc 180
 aacataggaa ttatgggtgg tgcattgtgg gcatctgggt ccatgggtgc tgcggagga 240
 ggtggggtgg atgatgaagg gatgtcttca gctcttgctc tctttcttga ggccatctgt 300
 aagaaaagaa tgtgaacatt taaaaaatt aagacaacag atagataaag gccgcttagt 360
 gaaatagcag ttgcttagtg gtctcacan aacaatatat atcgcttggc gaagtanaag 420
 tcgcttagcg aagtttcaa 439

<210> 12486
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12486

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 ataaaaaaag tagtaataaa aaaataatag aaaatttttag aattatttta aaattatgat 120
 attctcattt atttaaacag gtcaaattca aagtttggat ttggcttggt aaaaagcata 180

atacttacat ttgacttggt tatcttattt ataactttat ttttatattt atcaaataca 240
 ttcttaattg taagtgtatt aatataatat ttaatagatg ttttcattta gaagatgata 300
 tgaaagaaaag agaataacag aatgggttaa aattcaaaaag atatatataa gtaacttntt 360
 atgacgaaat tgtaatttat ttattaaaag agaccacctt catcaagcat ttaataaccc 420
 tacattaata cactgacaaa g 441

<210> 12487
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12487

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 gctaacatat tgtagccata ttatctgtgt gtgactntgt agctttctgt taaccatggt 120
 ttactttcac agtntgaat tactatttct caacattaac attcttagct atggagctta 180
 acctgatct ctccccctctt gagaattttt gtaacatctt ctacccgaca tatatataaa 240
 taaataaaat atataaaaat attaaacaaa ttcacatgga taaaagggtc acctatcaca 300
 ttcacttcac tattaccaa taaaacttat tanaaatata tttggctcan aacaagggcc 360
 gtcaaaatta caaaatattt tgttaaatca gtgaggtaaa ataanataga ctaacatcat 420
 ccaattaata ta 432

<210> 12488
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 12488

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 aaaatccagc ctccatagaa gcttctcaag caagcttcca tctcctaaac acttaatcaa 180
 tccaaggatc cattccaagc aagggtgaat ttgagttcta atttaatat tctaactcctt 240
 gtgaatgttt atctttttct tcaatcctat ttttgatttt catgaatata ttatgcttag 300

gattgaaaat ggattaggtt atggatttat ttctaattt cacaatttaa tcacagaatg 360
tatgaatgat tcttcaacct aatttgtgat ttcaaacaat taagggaatg attcgattga 420
actatatcta atgcat 436

<210> 12489
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12489

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ccaagcccct acttctgagg ggcaactccc gccttatgac gactatcccg ggcaagacga 120
tgaggaagga gatacccatc tcggccccct gctccacctc anagatccgt ccncacatga 180
actaccccaa ccgaacatag tctgccatat cccggcctca cccacacccg taaaagaatc 240
tgttcccttc gcggaagata agggaaagat agaggcgctt gaagagaggt taagagcagt 300
cgtgggcctt ggcaattacc cattcttaga attagcggat ttatgtctcg tgccaatat 360
cggcattcct cccaagttca aagtgccaga ctntgatacg taaaaggga cgacat 416

<210> 12490
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12490

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gcaaacaaat ttctaattta taaaatatat ctttaattct aaacaacatc ctanaagtaa 180
gacaatatct ttttttaaata ctacataata ttctagagat ttaaaattat aaatttaaata 240
tatttcctaa ccgttatgac aagattatag attggctatt tagccatgga ttgattgcc 300
agacaatatt actattgaag gagaaatctt ttttacaaaa atactatgat tccacatctt 360
aatcataata atttaattta aatattcttt aattnttaata tcttgtttct cttctacacg 420
aataaatc 428

<210> 12491
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 12491

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tgcacagacc aaagttgcgt atgtaaaaaa attgtatgac caagtgaagg tgcaaattgc 120
aaagaagaat gaaagctatg ccaagcaagc ccaaaagaaa aggaaggaag tggacttga 180
acccggtgat gatcttggac atttgaggac aaatgttttc caagaaggag ggaatgatga 240
gaatcatgaa acaggccaaa tacagtctaa aggcccaagt ggagaaggac gaaggcccaa 300
gtggagaagg acaaagcccc cgagtggaga aggatgaagg cccaagtgga gaaggatgaa 360
tgcccagagg cagagacact atcaagacta ttaattgatg ctg 403
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<210> 12492
 <211> 384
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12492

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gtatagcata attgaatggt gcaatcccaa tgtgtgatta agagacaaac acttgaatgc 120
acttgtgagt gagtgaacaa cttgattagt gaggagtgtg ttcttcttgc atcaatgatg 180
aattgccatg cttgttgttc tccttgaatt ttgagcttgt gtatccttgc tatggtctcc 240
taaagaggac atccctgtga ataattgagt ccttgtccca ttcacttttt tttatagaaa 300
atacatgtgt tggatatggt aggatggaat cgatctcaac tcatgtcaat ggtttaatct 360
tagcactagt agttatcatt taac 384
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<210> 12493
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12493

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atagttgatt	ttgcatgaat	ttctaattat	cataacatat	gattcatgga	tatgatttan	120
gccgtctttc	tttctttaca	ttttaagcca	ttggccaaaa	agctatcccg	atgtatat	180
ttttatcatt	tgcaaaccct	ttgagccaaa	cacttcataa	tttgttggaa	cactaaccta	240
ngataagaat	ttcctacctt	accttangtt	gagagcaaag	gtgttttggt	aaggatttct	300
atcatttggt	ggctaattgtg	atgtaaatac	tattttttaa	tgtgggtatt	aagggaaatt	360
aaatatttaa	ca					372

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<210>      12494
<211>      429
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      12494
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ataattcaat	ggtagccata	accctagcca	aggttcatca	acctccattt	ctccgagaat	120
acgactcgaa	cgcaacgtgt	gcttgtcacg	gagaagcccc	ggggcgttcc	attgagcatg	180
gtagggctct	gaagcgtaag	gtgcaaggtc	taattgatgc	gggctggctg	aaatttgagg	240
agaattgcgt	gtaaatcctg	acattgacaa	gagatgccac	acatggggca	attttgaaag	300
ctgttgttag	gtgtccctaa	tgactcatca	gggtttccaa	gtttatgcca	ttattgtaaa	360
ccacagctac	aatgttaa	ganatggata	aagttgatat	ctntgtccct	catcctctca	420
caaacgcat						429

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<210>      12495
<211>      431
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      12495
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accactcct cacgtttggt tttttagga aaaacaccat aactaaacgc gccacaaggc 120
atccctatcg caccagatcc aaatctagaa cgatgggtga tcaagaggag acacaggaac 180

agatgaaagc cgacatgtcg gctctgaaag aacagatggc ttccatgatg gaggccatgt 240
taggaatgag gcagctcatg gagaaaaacg tggccaccgc tgccgctgtc agttcggtg 300
ccgaagcaga cccaactctc teggcaaccg cgcaccatcc tccctcanac atagtaggac 360
ggngaagggg cacactnggg cacgatggca accctcatct gggatacaac cgagcggctt 420
acccttatgg a 431

<210> 12496
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12496

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ggatggcctt gattntctta ggggtccactt ggaccccat tttaccaact acaaaccxaa 120
agaaatacac aaaaggtaca cttctctata tttgcataga ggggtgtttt cctaaggact 180
gaatgaactt gcttgagatg tcttaagtga tcatctangc tcttgctgta cactaaaata 240
tcatcaaaat aaaaaactac aaatctacct atgaaatccc ttaagacatg atgcataagc 300
ctcataaagg tgcttggtgc attagtgagc ccaaaggca tctactagcca ttcatacaaa 360
ccanacttgg tcttgaaagc agttttccac tcatcaccct ttntcatcct gattnggtga 420
taaccacttt taagatcaat t 441

<210> 12497
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12497

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ttgtgagcta actgttggtg gttgtataca atcaccagct gcccctgaa taagctctgc 180
aacataggaa ttatgggtgg tgcatgttgg gcatctggtt ccatgggtgc tgcggagga 240
gggtgggttg atgatgaagg gatgtcttca gctcttgctc tctttcttga ggccatctgt 300

aagaaaagaa tgtgaacatt tacaaaaatt aagacaacag aaagataaag gccgcttagt 360
 gaaatagcag ttgcttagtg gtcctcacia aacaatatat atcgcttggc gaagtaaaag 420
 tcgcttagcg agttttcaa 439

<210> 12498
 <211> 232
 <212> DNA
 <213> Glycine max

<400> 12498

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 gctgcaactg agctgacgta ctcccacgta gcccatatgc tagtaaataga agctccgggt 180
 ccccgtcact gcttacatgc ttacactacg tggaagctga acaacattcc ca 232

<210> 12499
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12499

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 agggatatttt ttgattatt atattattat ttacctctt ttttgatttc caacgtgggt 180
 acggcacgac cgaacggtcg gaattcattt taaccgaaat taacggatga tacaattcaa 240
 acgatcagtg gaaatttatt ntatttttag attacgcgag aaatgactta tataaatgac 300
 taatgcatgt cataaggggg tatagaaagc gaatgatcac gaaaataaaa atacatgaaa 360
 caaaatgtgg accaccacgg gtacatagaa tgaattgaat agctcggttt gaagtactta 420
 c 421

<210> 12500
 <211> 581
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12500

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taacctcgat gcatgcaagc ctgctaattc tgttatacaa catatgcaca cactaagcgt 180

gatacacatg cgcataaggc gcgaactaca cgcactgagc gaggggggtgt caggctaaac 240

gcgcctacga atgtctaaaa tccacattta caactattaa tataaaatca atgcaagggg 300

ggaataccct acacaccacg aaagaacccc ctcgctccagg agattcatta actcactatc 360

tgtattcaac acctcacata gaaagccctc tatgcgcatg actggctcaa cccttcactc 420

aaggcatgca taacctaaac aacgaccacc atgtatgacg gacattctac tatttatcaa 480

agcaaaacca tgctatgcaa atcgtaanat atatctcgat ctaaaattgc caacacatac 540

ttaatatccc gctacgggct ataatccctg gagaagctac g 581

<210> 12501

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12501

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ggcgcgatct acacgcactg agcagaggggg tgtcgcgcta agcgcgccta cgaaggccca 120

aagcccactt caacagctat aaatattgag tcaatccaag ggggaatagc caacacacca 180

cgaaagaacc ccctctccta ggagtttcat ttactctctc tctttctttc accccttctc 240

attgtaaagc cctctatggc catgagtggc taaaccctta gttagggtct ggcagaccta 300

gaagccaacg caatgtatga tgtactcttc actatttate aatgcnatac cagcatttc 360

tctcctattt acttctctgt gattatctag catactcacc tatatattct 410

<210> 12502

<211> 433

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12502

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 aaatcaccat tgaaagacct tattgaagct caaagatcta gcctccatag aagcttctca 180
 agcaagcttc catcaccata cttnttatca actttaacac cattntttgg gtcanaccaa 240
 tagcaacgca gaataatgac tctgttttga tatccaagat atgacaattc caatatctcg 300
 tcaacaattc cataatagtc cagatcattg tcaccatata tatgtcccct aacacatata 360
 ccactattca tgggtggctgt attttttcca tatttcttag tatgaagcct gtccccttaa 420
 ctattaaaag ata 433

<210> 12503
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12503

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 ctaagaaggt tgacttaggt ttttcttttg atcgttctac caatgcttgt ctttatttca 120
 ttatgactca tatgaaggcg acaaccactg ccttgggtgc agaacacaat gtctttcttc 180
 tatttcgggt ttgtaagtat tttatttggt cttcttcaaa ggttattggt tttgaatata 240
 ccccccatgt cactctactc aaatcggata accctaaagc catatgagtg ctattcttgt 300
 tttctctcta caaatctatt tttttccttt tagaaagaat aaggactaag cataatcatt 360
 aatatctatn nttctatggt tgcgactgag caaccaacat caactaaatc acttgatcat 420
 catgctaa 428

<210> 12504
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12504

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cgagtggagg aacgccccgg catttacgca acaagcataa tgtaaaccctt cacggtttta 180
aaagctctat agntgggcct atgctttaga gttttctttt tggtaaggct ctgtgtctta 240
tgtttttgaa ttgttaatac aaggatctct cttcatctgt tcttgagctc taccattctt 300
cattcatttg catgttactt cttgttttga cacgcatatt cgataccagt ccccgatag 360
actaatacct ggaccggtta ttctctctag cagatatga 399

<210> 12505
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12505

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ctcacagtct ttagatttgg gagccaatcc aatccttggtg tccggactct cagccactta 120
tgatagccgc cgatgatccc attattgctt cccctaagct ctttgcctt tcttcacgcc 180
gcatcccatg ccttgcgaa tccttgaggt accctcgcgt tgtggtcact gaaaccccg 240
gcatgaaag gcgtgatgct ttcgtctgat ggcactctc tcatgggta gccaaagctgt 300
cttatggcga ggacgggatt ataattaata caacccttg tcacatcaag agaacatttg 360
gacatccttc gcatgaagat agaatcctga ttcttcttc cttctagcaa gggaaccaat 420
taacagacg 429

<210> 12506
<211> 439
<212> DNA
<213> Glycine max

<400> 12506

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agtaaacgca tgcactaaat aactatatac aatcgctcgt cgtttgctcg aatcttgaat 120
acatgcatag tattgccatc atcataaagg gggagattga atatgcaata gcctttgatg 180
tgatgaatat gatcatgatg atgtgttgca attgatgcaa atgggcgttt caagattaaa 240
tgtcagacaa taactcaaga ttaccacgta caacatcaag atgatcacta gaataatatg 300
aagggaataa ctatatgcaa tagcaaaggt ttgtccaaat gatgtataat taaacaaaga 360

ttcataaaag tattactctc tggatgata tcaccagaag atgtgaacga tcaccatggt 420
ccaatacgtc aatactgcg 439

<210> 12507
<211> 406
<212> DNA
<213> Glycine max

<400> 12507

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cttacgccct tctctctctt tcgaatttgc ttggaaaaat tgattccgtg aagaaaatcc 120
aagccgaggc gcttccgaaa cgtttctgta acgtttccgt gaggaattc tcgaagggtt 180
tgaccggctc tcgacgttct tcattcagtc ttcaccgttc ttcgatcttc aacgggtgag 240
tacctegaac caagcttttc gatacattct atgtaccgtt ggtgggtccac attgtgtatc 300
gtgtattgtt attctcgatc catttacttt ttatacccca ctttgacgtg cttaagccat 360
attatctaag tcattttctt gcttaacctt aaaataaaat atattt 406

<210> 12508
<211> 308
<212> DNA
<213> Glycine max

<400> 12508

agctttggtc tctacagatc ttcacacacc ataattcttc agactctctg gaactgggac 60
cttactctct ctagaatctc tcacatgcag aagctccttg agaaaatggc caaactccct 120
ctctaaatct gatttcaggc ttaaattggg ggatttggtc gcgctcgtgc gcttagcgca 180
actctggtcc gatcagtgca cattaatgaa tatcgactta tcacgtgggt ttctcgatc 240
aacggatgga ctgaagcgat gcgcttagtg agatgaccct ctgctcagcg aacatgcata 300
gctcatcc 308

<210> 12509
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12509

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tgaataattc aaaatagata tcaatgtact aagatgcaac atacaagata acaaccaata 180
caaatgtcac tcaagggagt taggcatgta aaagtcaaaa catcttcaag cttttccttg 240
agcttcaagc tttggccttt atgttggttca ccatgttgct cccctatctc tagcatcttc 300
catagacaat aaatgactag canatcatgg ttactcgctt cttggagtggt gccaaactcaa 360
tgcaacacag agtggcatgc aattcagtgc acaattctcc caaagatggt atgaattgga 420
ttaaactctc atcatct 437

<210> 12510

<211> 349

<212> DNA

<213> Glycine max

<400> 12510

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agtcaagggt ttagagacca tacaagtttc ctaccgattt ctaattatgt gggccattaa 120
gtctatcata tgctgacaat agccgagaag ttcgtggatc tcttctgggg cgagtaagt 180
gactgccatc gccttggcct tggctaacaa tcggggaaga tcttgactcc cgctcaagggt 240
aagaactaac cgatccattc acctggatgc ctcttggtgt aaagagtcta tcaactcttc 300
tctagcctat ctgtccgata tacttggggtg tacatattcg cgattctat 349

<210> 12511

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12511

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tttgaataaa ttntaagaat aattatcata aaaattaata aatctatcat acatgatata 180
attaaataat aatatataat tattttacac tatcaataca taatctattt tatcatatta 240

tattatgccc ccataatatc ttataactct tttccagcgg gcacacttaa ttctggtttt 300
 caatagacat gaggatcagt ggacgtgcgg aataagtgtc attcccttac tctcaggaaa 360
 cagccatata tatcgcatg atccaaaacta tcatatctat 400

<210> 12512
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12512

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 ctccagaagc aatattcttc tggaggaatc ttctggaggg cccaagtgag cctgggtgct 120
 atttgactc ccatttttac taaatacacc cccctgcctt ttntttggtg attctttntt 180
 cgtaaaatta cggaaactta cgaatttcgt aacgatactt gttttctttc cgtaatgtta 240
 cggaaccttg cggattacat aatcatcccc tctttgactt acggaatgtt acggaacctc 300
 actatttggtg caacgatgct ttcttttgat ttccagtgtg tcacggaacc ttacggatng 360
 tgcataata tattcttttg atatccggca cgtcacggaa tttcaciaat ggctaata 420
 tgg 423

<210> 12513
 <211> 271
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12513

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 taaaaattta ttgtcgtttg aatttgatca gagcttcaac attcaatttc gagcatctcg 120
 atatattacg ggactcaatc agacatccga gtaacaagtt attgtcgttn gaatttgctc 180
 agagcttcta cattcaattt cgagcgtttc gatattattac gggactcaat cggacatccg 240
 agtaaatagt tattgtcagt tgaatttgct c 271

<210> 12514
 <211> 409

<212> DNA
<213> Glycine max

<400> 12514

ttgctttgaa tgttcatcat tgtaacaaac ctttattggt tctgaggttt ggagaaagta 60
aaattctttg aaagaatcga aatgctggaa gtaaattgac aagggatagg taaattgcag 120
aatttaaagg ctcaacgagt tcattcgatc gaatgaacca tttaaaagac aggaattata 180
taaaacgaaa cgtaaattgc attgcattcg aaatataaag ttacagaat tttaatatgg 240
gtcacaatca tacattctcc ttgtgtactc gttctctctg cgctgggtac tttgagtgt 300
taatgattcg tacaaatgat ttgcgacctc gaaatctgac taaaaactgc tttatataga 360
cattctaaaa taaactggcc taacggtcga acactattct aatgcccag 409

<210> 12515
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12515

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cttcatgatt tacaacggca accctcatct gggatacaac cgagcggctt acccttatgg 120
attgccgccc aactactcac caccgcctct gcaagacgat gcgggcaata ttgcttctcc 180
tgtccttgaa agagagcctc ctcaacagcc cgacgaggtc cacgaagacc ctcaagacta 240
tgctcgaagg gatgtcgagt tctatcccc gattcccga gggccgacac ccagcatgtt 300
gcctcagccc aacatcacga cacaaccaat agtntgtcc atggaaggac tgccccggc 360
aactgaagaa aggaggaagc tcgatctcct cgaggagaga ttgagagcag t 411

<210> 12516
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12516

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gtatgacagt caccgcttta ggagcgtgt acaccagcag cgcttcgagg ccatcaaggg 120

atgggtcgttt ctccgggagc gacgcgtcca gctcagggac gacgagtata ctgattttcca 180
ggaggaaata gctctacgga gttttaaaag attggctaag attttggtta aacataagca 240
cttagacaat gaaggaaagc tggagttgct gcacatgatg tccaacgtta tgtcaaggaa 300
taagatcggg ctgcacaatg cacaaggcaa gataaaatgt caaatgaaga attgaagttg 360
caggatccac gatgtcggat acaatgtcct gacatcctgc ccganaatac tggagttgct 420
gacaatgcat aagtcaagat a 441

<210> 12517
<211> 427
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12517

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taattgggtt gcctcccagg aagcacttct ttaacgtcat tagcttggca cttttacctc 120
actgngtgat cttatgtttt ggttcgtact ttcagaacct cttgacctct taccattacc 180
tgtaagcaaa catttgtgtt tggagcaggc ttatcttcaa aaaataaatc aaatcaatt 240
ttatgatctt caaaacctag ctccagcttc ctcttcccca tatcaactat gcagcttgcg 300
gtcaacatga atggccttcc aaatattaca gggatgccag tatctntaga gatatccatt 360
accacaaagt ctgccgggaa gataaaatgt tntactctga ccaacacatc ttcaattact 420
ccatgatg 427

<210> 12518
<211> 436
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12518

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accttcatac tcaataattg aatcatctgg ctttttatta gccctgtctt caaaatccat 120
tgtgtatgac ataccagagc accctccctg tttgacacct attcttaaac ataaatcttg 180
atctcggtca gacctcatct tattcaagtg cttcagcgca ttatccgtaa gtgaaaactgc 240

aggggccaga gaaccagatg ctgggtgcagc tganagatat tgagggtggg gtgagtgaaa 300
gcaaagatta aaaaagtgct gagggtggca gaaaaagtat ttcacataac anacaagtat 360
ataacanaat tcaaaatata ctgtntagct gttgcaatct ggttaatgat attaaaacag 420
agtgaatgcc aataac 436

<210> 12519
<211> 447
<212> DNA
<213> Glycine max
<400> 12519

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ggtgattttc caccatggag atgcagcgga agataaagga gaagagggtga gaggaggcgc 120
catccactag ggaataagcc atggaagaag gaggttcacc accaagagag tgtggaagca 180
aaacttcatg atgaatcaac aatgattcaa aggtgttttg atgataacaa tgatgacaac 240
aaaagatgat gacaaaagtg atgaacaaaa agctcaagtg aatcaaagaa catccatctc 300
aagaatcaag attcaagatt caagttcaag aatcaagaag aattcaagac tcaagaagaa 360
agcctacaaa caaagattca agatctcaag aatcaagatc aagattcaag atctcaagaa 420
tcaagatcaa gaatcaagac tcaagat 447

<210> 12520
<211> 431
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12520

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gtttgatgct tttcctctaa gtcctctcta acttgctgga tggttgtaac acgggattct 120
attttgttat ttaatttaac ttgcattctt ttgtattata tttatatcat caatgtctga 180
tcaatggcat gagctgagca tcattcagga tcttactgac cgtatatcac tctttgtttt 240
ttaggtcttg gggactgngg agacagagga taactgaagc agcacttgat ttttgtcact 300
ctttntata ttatggtag tcatatcgac agtctggaga gtgaagtaaa gataatagca 360

ngttagtcat atgttacagg atggctntct ttangaactt ttcanatgat acagtctcac 420
atggtgtcat g 431

<210> 12521
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12521

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ggctacttgt cagaacttac aatctaactc tgattaggca gagatcatat ttagaccagt 120
ctgttaaata aataagtcac gcaagacttt tcttttttta acttagttag ttttttcttt 180
gtacataaaa gacttattca gtttaaaaaa agtcaaattt tgaattataa aatcttttac 240
ttccaacaaa ttaatctatt ttagaaatac aaataatata gcaattagtt aaaaaaata 300
cttcatcaat tattaattct ctttttccct actttgtttt ttgtttcttt ntattctttt 360
ctataaatga ttcttggaag agagccctca acgtaatcca tataggagcc ttcacaaacg 420
ggaaactcac tc 432

<210> 12522
<211> 430
<212> DNA
<213> Glycine max

<400> 12522

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tcaaaagtgc tctatttttt cattctgagg caatttttca cagaaagaag agcacattta 120
attgtgagga gtcgatgctt cagatggact acttgaggag tcacctgagg atggattcaa 180
tggtgaacca gctgtagag aaccatttcc accctcactc tcagccacca ctggtatctt 240
gacagtggct gctctttcca tctctttctc gagttcttcc tctttacgca atgcagtaaa 300
ctgggtatcc aaggatttcg ccgcagctag ccaggcagat acaatcagca gaagtattcc 360
tcccaagtat ggggttgaat tagctagtga cccaaaagtc aagatcataa attgctggat 420
aagggcacct 430

<210> 12523
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 12523

agcttctgtt ttcaatttcg agcgtctcga tatttttacgg ggctctatcc gacatccgag 60
 ttaaaagtta ttgtcgtttg atttttctaa gagcttcctt tttcaattac gagcgtctcg 120
 atatattacg ggacacaatc ggacacccga gttaaaagt actgtcgttt gaattttctc 180
 agagcttcta ttttcaatta cgagcgtctc gatatattac gggactcaat cggacatccg 240
 ggtaaaaagt tattgtcggt tgaattttct cagagcttat gttttcaatt acgagcgtcc 300
 tgatatatta cgggactcaa tcggacatcc gagtcaaaag tttttgtcga ttgaatttgc 360
 tcagagcttc tggtttcaat tacgagcgtc ctcatgtatt acctggactt catcggacat 420
 ccg 423

<210> 12524
 <211> 566
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12524

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 cannnnnaaa tacaaggag ggagntttga ttgatatcga tngcaangcg aacncaannc 120
 nacannngac ccgggggagac agtagagncg accggcaggc aggcaagctt ttccatatcc 180
 tgacactgaa caaccccaaa ggcgagcagg aggccaccac acgaacgcca ccaccacgca 240
 caagacgcaa ccgtcaccta gcgaacagcg aaaaggaaag gcagcaacca gaaaacgcca 300
 aaggaaacag taacatacga agacaagcag acaaacaatg gaccaacgga aggataggac 360
 caccgaaaga ggaacggacc ggatacgaaa gacaacaaga aagacaaggc aggaacagag 420
 aaagaaccac cgaccgacac cggacgaggc cccgataaaa gaagcaaaaa gagcggccca 480
 aagcaccgca aacggaccag aagaaaaaag acacgcccc aagcaagaa cagcaaccaa 540
 cacgaacaac acaaccgggc acgaac 566

<210> 12525

<211> 421
 <212> DNA
 <213> Glycine max

<400> 12525

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agcgaaaaga atcaaaaagc gaagcagtgt atgtattgaa tcggatccgg gttacaccca 120
tgtcttcgat gatgcaccta tcgcgaaagc gaattatctg ctaatattaa taatttggag 180
ctaaaagtcg acagtttTgtg gaaaaacgca atagcaacaa acgccgaaga tgaatcaaac 240
aagcccaaaa ccaaattctg agaaaaattc attcagaccc aagctaagaa cccaattctc 300
aaaatattaa aatagactag aacccaactt gtaaaaaggg gtgttgcgag aatcgaactc 360
gcgacctctc gcacccgaag cgagaatcat accactagac cagacaccct atacaaattc 420
t 421
```

<210> 12526
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12526

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aaaaacaaga aatgaattaa aaagtctcgg atttggaac ttacccgttg aagaatgaag 120
aacggacgaa gaacggtaaa gaacggagga aaaccttcac ggatttgctt acggaaacct 180
ctcggaagct ttacggaagc acctcggtt ggattttctt cacagaaaca attttttttt 240
acccaaaaca gctgaaatgc atagccagng gaatcaggca cccttagaac aacccccctt 300
tgctttnta taggaaaaag ggggaggagg ttgccgccca gctcgcttan gcgagctggg 360
ttgcttcac cttaagcaag aaaatgccta gaaacctcta gaagggccta gatttgaaaa 420
tact 424
```

<210> 12527
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12527

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gagactaaaa caatcgatcg ctaaagtgat aacttcagtc gctaaattga aaattcagtc 120
gctaaaattg ttagcaatcg aaatgacgac cgaattctct gtgtcgcaaa accctagtct 180
ctaagtcctt aatcaccaaa ttcttattca tttccgtgca tggttggttg ctattttggt 240
tgggaccagt tcaacaaccg aaattatcgg tcgctaataa gtaataaaac tttaaataata 300
acataaatta anataatatt ccgtcactat tgaataatta atttgaagt aaaatttaag 360
agaaattaca ttcgatcact aatttggtga ctaagtttaa aataaaatgt attaacaaat 420
ataaattg 428

<210> 12528

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12528

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ttaccctcgg aagcaaaaaa agaatagaag ggaaatttcc aatcaaagaa aaagagaagg 120
aaaatttcca atgaaagcaa aaaaagaaag gaagggaat ttccaatcaa agaaaaaaag 180
aaggaaaatt cccaatcaa agagcgggag aaagcaaaaa gaaaagaaag gaaattccca 240
atcaaagaa tgggagaaag taaaaaagga agaagaagaa ggaaagaaag cccctgatcg 300
gngatcgaag ganaaacaga agaaatatgc agagaggtct ttggaccgga caatatctga 360
acaatacaga attgtcacca aatgaacaaa aaagaaggaa aggaaaccac gacctanaat 420
ggtcttctcc ct 432

<210> 12529

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12529

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gcttgtgtgg tggttggcca gctgtgaaat ttgagttata tatgggatat ggcctctggt 180
aatcgattac caagggtggg taatcgatta caaggcttaa aaatgaagac aggagactaa 240
gatggtctct ggtaatcgat taccacggng tgtaatcgat taccagtctt ganaacgagg 300
tcaggaagct atgagggctt ctggtaatcg attaccaagg ggggtgtaatc gattaccagg 360
cttataaatg aatgtagcaa gttgtggagg cccctgttaa ccgattacca gtctgtgtaa 420
tcgattaca 429

<210> 12530
<211> 439
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12530

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atgttgagga caccaacagg gaattggcag ggaagattgg agttgtgata ttgggcatag 180
gctagcaatg aaaagtgttg caggggcaag atgggtggtga ttcaaggcaa agagaatgaa 240
aaaatctggt atgggttcgcg acaaggtggc gcttatgggt agcaagaaac aattgtttct 300
ttatagggaa ggaggttaagt gttgagaatg ttgttgatag gaataagggt gtttcctgac 360
aatggttttt tgtataggaa tgtcaccaac tcgattntat tctcctcatg gtgcacgaat 420
tcgttcttgt gcgcatgat 439

<210> 12531
<211> 430
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12531

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aacatatcga gacactcgaa attgactaca gaagctctga gcaaattcaa atgataataa 120
gtattgactt ggattttcga ttgaatcccg taatatatcg agatggtcga agttgaaaat 180

ggaagctcat aaaaaatgaa aacaataata attgttaact ctgatgtccg attgagtccc 240
gtaatatatc gagacgctgg taatggaaaa cagaagctca tagaaaatgc aaatcacaat 300
aacttttaac tcggatgacc gattaagtcc tgtgacatcc tggaaatttc taacccggaa 360
ttttgtaaat ggtgcattnt gaatggctat atatataagt attattcagt ggatgtatat 420
aagtatatat 430

<210> 12532
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12532

agcttttctca tgttttaagt tcttctctcan aactgtccta agcaaagttc ccaatgtcct 60
attagcaact tccatttgcc catcggttta tgggtgacaa gtggttgaaa ataacaattt 120
agtgcccaac ttgccccaca tagtctctcca aaaatgactt aggaacttaa gtccctatca 180
ctaacaatgc tccttggaia accatggagt ctcaaatct ccttgaaaaa caaatcagcc 240
acatgggaag catcatcaac tntnttacat ggaataaaat aagccatttt agaaaaccta 300
tcatacgacc acaaaatgga gtctctacca ctgcttgttt ttggcagccc tataacaaaa 360
tccatggata aatcaatcca nggatactcc ggaattggca atggagtata caatccatg 419

<210> 12533
<211> 384
<212> DNA
<213> Glycine max

<400> 12533

agcttctaga tgagttatgt ctgcgaatcg gacatcctgt gaaaagttat gaccatttga 60
atttctcgag tgcttccgtt gtttaatttc aagcgtctcg atattttatg tcctcaaata 120
agacatcgga gcgaaatggt atgaccattc gaatttgccg agagcttccg ttattcaatt 180
tcgagcgtct agatgagtta tgtcaccgaa tcagacatct gagtgaatg ttatgaccat 240
tcgaatgtgt cgagagcttc cgttggtcaa ttctgagcgt ctagatgagt tatgtcaccg 300
aatcgacat ccgtgtaaaa agttatgacc attcggcttt gtcgagagct tccgatgttc 360
aatttccagc gtctcgatat atta 384

<210> 12534
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12534

agcttttatag tttactgtca ctcacgtgcc catacgtaat agaaccaaat atcttcaaat 60
 cagaaatagt tacacgttat aaccagggtcg taccttgtgt agaatcttca tgtcaattgc 120
 atggagatct gtttgctagg tatgaagtta tatggctcat ctttgcccaa aatgatgtcg 180
 aaaatacaac attaatcac atacatcgtg caccctacaa cagaagtgtt ctagtcatct 240
 actttccaag tccattttta ttgtaatgtc ccacattcaa ataaatgatg cctcataatt 300
 aacatttcta tagtactcct canaatctta atttcaaaat gttcccaaca ttgtcagttc 360
 tcaatctctt gattaatc 378

<210> 12535
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12535

agctttaact ctgattattg agacactcat aagagctcaa gcttaagtcc ccattactac 60
 acatccattc ctagacctgt gatagatgtg ggattgtgca tgggctggga gaatgcactg 120
 ttaatgatga gataacctaca gccatgaatg agattaactt tgtttgggga agcaactatt 180
 cttataatca gtaccccaat aatttcaatc aacgataggg cttcaagaag aatcacagaa 240
 tgtttaggtc ttaacctatg caaaattaga ggctacaaa agaggagaca acccactctt 300
 caagaaatca tgcttcaata tatgaccan aatgatcaaa gaatgaagta gggtgagtcc 360
 taattgacca acatacaatc tctcttgtca caaagacaac t 401

<210> 12536
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12536

agcttttgtgt ttgagatggt gatgttaagt gggaattgca accagaaatt aataatgcag 60
gggattattg tgtatttgga gtgatgcaac tttcaaatg gaaaagaagg tcaagggaaa 120
tggtttcata tatttggaag gtacttgggt tggatgatgt ggaaaagtga ctataatcaa 180
tatttactct ccttgtgaca taacttctaa aagaattctt tgggatgaag tcaaacaact 240
tagaactgcc aacaatgggg gtttatgggt tattttanga gacttcaata gcattagaag 300
gaaatttgaa agagtangat tgtgtcagag gattcagaat ggaggcagcc tgaaggaatt 360
cataatagga ttgttgactt ggatgttgag gatg 394

<210> 12537

<211> 389

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12537

agcttttact attaggttca tcaagtcagg ttgaaatatg gaagtaacca tcctgcaaac 60
ttggggcaaa agatgaatcg agtcacatca ctgcttcgtc tactgccaaa catatttagg 120
attattgatg tccttggtac ttccagtttc accttgacaa agatgtcatg gaccatgttg 180
aaaatctaaa ttgattcaac cccatatact gcgtaaaaat tcgcaatact tcgactgtac 240
atcattcgca tgcattcatg cttttcattg gttgcattgc tcattgcatt ctttccttga 300
aaaataaaat aaaataaaat gaacttatca aanagaaaag gaaacgcttt acggcgccct 360
taccgaactc gtgctagagc tagagtaat 389

<210> 12538

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12538

agcttatcat tatcaaactt ggagaaagag ttcttgggggt caagacatga gaagcaatca 60
agtataatgt tacttccttc actaaagcgg tgatccatct ccacacatat tttatcaata 120
gcaacataaa aaatctctgc acggtaatga tgaagattag tgatagtcct cccttctgct 180

cttgaacgac cccgaactgg tatttcgtca tccatatttg gtaccagaat acttttagca 240
acacaaaatc cttggacatc ggcaaaaaaa ttattccagc cactctctct cattgtgccc 300
aaccgagctn tgacaacatc aactaattcc atgacattca caatattaag atcttttctt 360
tgcaatatat ttgaaagctc gtttgtgata ccaaacaact ntaacattaa cctcaaaata 420
aaagc 425

<210> 12539
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12539

agctntaaga tgaacttctg tacaatgggg gagtttctgt aatttggaaa aagtagaatt 60
gttaaaatgg taaaaatgtg tttaaagaga ttaagatatg aaagtcaggt taccaggggt 120
tcaggatcat ccagcatttc ctgagtaagt tgaagagtcc agatgtgctt tctggatgaa 180
tgtctctgcc tgccgcaagt ttgccgctcc agtggtggtg tgaaatgtat gtcaaaaaca 240
gagtgatggt cacatgcaaa aaaattgatg ttggttgact cgtagattnt caaatctttc 300
ctgaagtttt ggagtccata tgctaaatac actctgtctt tgtgttgtct gactcgtatt 360
tcatagatgg ctccattgta tctgagatga acaaactcan gatagtgtgg tgcccattgt 420
gtatgataga aactagaag ttg 443

<210> 12540
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12540

agctntgagc tttgatcacc caccagtggt tcagcaccct agtaccaaga ctgtatgtag 60
ggttttcttc aagccacact tccaaaagca gtgtaggggc ttttgtgggt tcgagcaaag 120
ggtttctggc agtattgaaa acaatgtggg acaatgtggg tgtcgaggga gcggtttccg 180
atagatttca ngcaggagga gaaagagaag agtgactgca aggttttcga gcgcgcgggt 240
tatgaaatgc caatgtttta acttataaac ataacaacat cggttgttta aggataaccg 300

atgttaactg aatatagtta acaaccgatt tggaaaaatt gatgttaaca tcatataggt 360
 tacatcggtt tttcaaaaaa tccgatgttaa gatcaactcc ttaacatcag ttntgagaaa 420
 actgatgtta actctatc 438

<210> 12541
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12541

agctttttaat ctttatacat tattcccgt ctgataccac ttgttggacc ttgtggcctc 60
 aataatctta agagggatag gcttagaata cagaagaaac aacaacaatc aatttaacaa 120
 tgttctttan acatgcaaga cacaattgat tgcaacaaaa taaataagat aagggaagag 180
 agaatgcaaa cacagtnta tattgggttc gccacaacc gtgcttacgt ccagtactca 240
 agcaaccac ttgagagttc cactaacttg taaattcctt ttacaagttc taaacacaca 300
 aggacaacc ttcttttggt ttagagatt cntacaaca agagactcac agtctcttaa 360
 ccaatctcat tgaataagaa gaatggaaga agaattctct cttcaagaga agaatattac 420
 aatgaagatc atgt 434

<210> 12542
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12542

agcttactct gtcatatcc ttgattacgt catgcatctc tccatggcat cgtaaataagg 60
 catatcattc ctgcatcata tttgtgcatt gcattttcat aaatcactgc attatcatac 120
 gccttcattt agcatgcttt tgttcggcca actacatata ttctacttcc atcattcgca 180
 tgtcatgttc actcgtgcat gatcctggca tcttcctctg cnaaaaaaaaa aaaaaaaaaa 240
 aaaacccng aacaaaaaga aagtcacacc acattcttag ttacatgtgt tgggtaccat 300
 gatgatggct ataaaccaac catgttggga ttatacacca atttatcaag aaaaaaatga 360
 ttgaaaatca tgtgaaagg ctacctaag catggttaac taggaaaatg gtggctctag 420

ggcatctcat gtcaatctca taat

444

<210> 12543
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12543

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caacagaata attatgacct ttccagcaac aggtacaatc ccgagtggag gaatcatccc 120
aaccttaaat ggttgaatcc ttaacaacag caacaacaac aaccttattt taaaaatgat 180
gttggcctaa gcagaccata cgttcctcca ccaatctagc agcaacaaca acaacagctt 240
cagaaacaac aaacagttga ggctccttcg caccttcctt tgaagaactt gngacgcaca 300
tgactatgca aaacatgcag tttcaacaag agaccagagc ctacattcag agctttacta 360
atcagatggg acaattggct acac 384

<210> 12544
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12544

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cgtcgaagaa cgggtgaaac ccttgcgaaa ttcttcacgg aaaacgttac ggaaacgttt 120
cggaagcgcc tcggcttaga ttttcttcac ggaaacgatt tttccaagca aattcgaaag 180
agagagaagt gccaaagggg ctgaaccctt ttcttcttca cttcctcccc tatttatagc 240
aaaatagggg aggtggttgc cgcccagctc gcccaggcga gctcagctcg ccaggcgag 300
ccaggttgct tcctccagaa gcaaccgcct tctggaggaa tattctggag ggccaagtg 360
ggcctgggtg ctatntgcac caccattttt actaagtaca cc 402

<210> 12545
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12545

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tttctaagct ccccttggtg tatctttggc tttagagcttt gtcctccctt gcatagttac 120
tataatttcc aagcaaacia gacaagaatt agtcatcagg attaaagcta agggaaaacia 180
aaaagagagt gagaaggggt aggtggccgc aaagagaaga gatgagagat aggcaagaag 240
agttgtgcaa catataatga aacctatag tgattagaat agcttttata cttaggcatt 300
tcttatgtta tattgatata atgggcccggg ttccgggtact tatggataaa aaaaattaaa 360
ctaagcccaa ctagatgtac caattcctta ctctntcctt taatctaact acccgctcat 420
ctaatataga cgggctaca 439

<210> 12546
<211> 429
<212> DNA
<213> Glycine max

<400> 12546
agctttgcat tctaaattgt ttctcttgaa catagatgat ttgtaatgag tgcttttttg 60
tttggaatga gattcataat gaagaaatca actacaattt tgcataagcc aaagggttaa 120
gcagagagaa tggtccaaaa cagtagtcaa atgctaaaat ctccctaggt cttcgcaagc 180
tcacaagatt ccttcatcaa cgtctaaata atgtatccac taaaaaggaa accgtcaact 240
agtttctttc cttccaaaag cgtacgtgtg caatatatat ctgatagtga cacaattggt 300
gatgtttcac ggcggctgtg cgaccaccct ttctcaatac aactccacac cattcaaata 360
tatgcatatg caagacaaaa atgaaagtag atacgttaca attaaacttat catatcctca 420
gatactacc 429

<210> 12547
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12547

agcttctcat ggaagctacc tagtctataa atagaagcat gtgtaacact tgttgtaact 60

ttgatgaatg aaagtcttat gagatacact tcaaagttcc acttctttcc ctattttatt 120
 cettcaatth cgtgctcccc ccttctctct ttttttctt ccattaaagc atcctcttca 180
 agcttcttat ccaaggcaat tcttggtggt gaagctcctt ctcccttggc ttattcccta 240
 gtggatggtta cctccccctt cctcttctcc tttgccttcc gctgcatctc catggtgaaa 300
 aatcaccatt gaaggaccta attggagctc anagatccag cctccataga atcttcacaa 360
 gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttannac 420
 ctccattaat tt 432

<210> 12548
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12548

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 gggattattg tgtatttgga gtgatgcaac tttcaaatg gaaaagaagg tcaagggaaa 120
 tggtttcata tatttggaag gtacttgggt tggatgatgt ggaaaagtga ctataatcaa 180
 tatttactct ccttgtgaca taacttctaa aagaattctt tgggatgaag tcaaacaact 240
 tagaactgcc aacaatgggg gtttatgggt tattttaaga gacttcaata gcattagaag 300
 gaaatttgaa agagtangat tgtgtcagag gattcagaat ggaggcagcc tgaaggaatt 360
 caataattgg attgttgact tggatgttga ggat 394

<210> 12549
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12549

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 atatatcgag acgctcgaaa ttgaatgttg aaactctgag ctgattcaaa cgacaataac 120
 tttntactcg gatgtccgat tcagtgcgt aatatatcga gacgctcgaa attgaatgtt 180
 gaacctctga gccaattcaa acgacaataa ctttttactc ggatgtctga ttgagtcagg 240

aaatatatcg agacggtcga aattgaatgt tgaacctctg aggcaattca aacgacaata 300
 actntttact cggatgtctg aatgagtgccc gtaatatatc gagacgctcg aaattgaatg 360
 ttgaagctat gagccaattc aaacgacaat aactntntac tcggatgtct gagtgagtag 420
 cgtattatat tg 432

<210> 12550
 <211> 659
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12550

cctcatctca ctccgctaca tctcgtatct acaattctct cactancctg ntntattata 60
 naaaaaaann nnccgagggg cctgattcat tcgaaaacac tcaattaana tatactctac 120
 aatactcant nttgttatta tatgttaggt agacattaca ctattatatt ttatatattc 180
 tacacctcac caatacgctg cggactgatc tatgagctaa ctaactactc acgttattac 240
 aataacgatc aatatgcgtc gtcacctaata acaacatcac aatacctaac gacggacact 300
 gcattcgtcg acgaacatct ccgcatactc gaatatctca ctagtactga ctgtttcaga 360
 gctctatcat ctatacatat catgtcacta cgactaataa ccgtataccc actacactct 420
 acctacactt tgacctcacg ctctcatcat ctaactcaac cacgtctcat gaatcttctg 480
 ctatgcgatc atcatatcac acactatccg atatacagcg acaaataaca ctcacataca 540
 aactcatac actactacat acagcttaag tacatcttcc gtgggttcta actctcactc 600
 cgtcccataa tgtacctatg tcctcaatat ccatatcgac caagttctct acaacatcg 659

<210> 12551
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 12551

cacccccacc cttcccgag ataaacacga aagtgaataa tgacaaaaag gagttgacct 60
 gacacaaaca aagaaccaag gcctaaaaaa acgaaagcag cgctttttcca ccggcggaac 120
 agggcggaag aacgaaccaa gcacaacgaa gaaagaacaa taacgacacc aggagaagca 180
 ggacaacaga agacgcccga ccagacacac cccaaaagca gagcaacaca gacaccacca 240

acgaacagac cgaagaagag aaaaacgcgg aaggaccag atcaccccga agaagatgga 300
 cgacaaagag acaggcaaga accaaagagg aaccaccccc acaccggagc aacaaccgcc 360
 ccagggacac aacccc 376

<210> 12552
 <211> 288
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12552

tgctttactg atttcatat actaattnta ttactaacat cttgcagcat tctctgctcg 60
 tcagttgata acaatggcga taatgctttt gctgaatggt gatttgtaat ctgaacggca 120
 ctgcgccatct tgggactcta acgtagacct tgactctccg gtctcgatgc cacccttact 180
 ttttactgcc agcggtgatt ccttggacaa ttcacgaata taatttcttc atatctttat 240
 cgccatggga atcgttccat actcacactt agcctttatg gcttctta 288

<210> 12553
 <211> 641
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12553

tcccatatat cactactaca nccccctctg aaaanccgac agtcaactac accatantnt 60
 taagtacaca canacnnaaa ananaaaagg tggntttgaa ttcgatccan tangcgacac 120
 tccannatac tnatacttac gagatcgcca gnctataaca cactattaga gcctccatga 180
 tacaattgtc tatagtacac tcatcacagg ctccattgag cgtggccctt tcttcatatc 240
 taaaggacct gcgtcgcgga agaagcaa atataaatac acgagactcg actcacaata 300
 ccaagcggtta gggatggatg gcttattcta acatagaata acacaaaatc acggagcacg 360
 agaaacagag gcggatccga agcgcaattc tctcagtcac cacgtaacgc aacgcaccac 420
 acgcacaaag acacgacgac agaagccaca cagcctccac gcaaagcgca cgacaccac 480
 cactagatcc ctgcgatcaa cacatgaccc aactctacg cccaccacga gcacacgtta 540
 ccgcacacac gccaccatca tagtccacgc ggacacgcac aacatcgacg acacactgag 600

acgaccaaaa cacacaccca aacacccata cacaattacc c

641

<210> 12554
<211> 525
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12554

cccaccgccg ggcacactcg gagccagccg gcacaaaatt nnaagcagac tgagactcga 60
atcgccaaca cngaccggac cggagcaaag agacgcagct gaagaatttc tcattaaccg 120
caciaaagaac ggggccaacg agtgtacaca ccgaccgcaa ccccccacacc ggacgcagag 180
acacagcgcg caccaagaca cagcagtact catatagcgg acgcactcgc aagacgaaat 240
atcagcgagc gcaacgagcc gccgcaagca tgaaaccgaa aacaacgagc caagaactcg 300
atgacccccac acaataagca gccatgaagc aggtgtacct cgggacagcc aacgtctaca 360
caggataaag aggaaaggcg ggttgagca caccgtcacc aaccatctct attctaaaaa 420
cgacaacagg aaagcccacg ggcactacct tagaccaaca acgaggaacc gtcgccggca 480
ggagaacatc ctcggggaga ggccgcccga cccgacaaaa ccgcg 525

<210> 12555
<211> 596
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12555

ccaccaacac caciaaacacg atagcgaatg tgaacgataa acggaacacc accancanat 60
aacnaaaagg gagnntttga atcgatgcna ctgcgaaaca canacnnaaa anacgcggaa 120
accaaagcaa gggaaacacc accacaccaa gttgcttatt ttaagggaca agacctgatg 180
gaggcgtaat gaacagaccc aaatcgaagc agcaccacaa agaccaaagg acgaacatcc 240
gcaccctga aacaaccgaa agagaccac actcgaagac cacgatcagc cgggacggcg 300
agatgcgaca caccagacac gcacaaatgc ggacacgaag gagacaggag atccaaccga 360
cgcccacgca agccaaacca taaagccaga agctcgaggt catgggaaca gcacaagaaa 420
ccccaacatg cacaggtgcg gcgagaatcg aacgaagaag gaactacact ggcaatccat 480

tgcgggcgcg aacacgaaaa ccacgaaagg acacgaggag cccgagagga caatacgacg 540
 caatcaccac gcaacagaat cgaacgctac gatgacacac agtcacaacg aagacg 596

<210> 12556
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12556

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 aatttctcca ctgtattccg tgtcacaagt gatgaccatt tgaatttctc gatagcattc 120
 gttgttcaat ttcgagcgtc tcgatataatt atgcgcctga atcggacttc cgtgtgacaa 180
 gttatgacca tttgaatttg tcgagagcat ccgttggttag aattcgagcg tctcnatata 240
 ttatgcgcct gaatcagaca tccgtgtgac aagttatggc catatgaatn tctcgagagc 300
 atatcggttg caatttcaag cgtctctata tagtctg 337

<210> 12557
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12557

cccccatacc acccaaggat tgaagaaaaa cacaaaaaaa nnnaacgggg tatctgcatc 60
 cacnaannan cacgaaagat gggaaacaac ccgcggtctt ttcaagaaac cagggggaag 120
 aaccgggaca agcacaacgc acagaaaaag cacagcgaag aagaaatagc gaaccaaacy 180
 gcagacagag gaaaaacgca aaacacgaag aaacgagcac aggacaacaa tcaaacaac 240
 cggagcggcc cacaaacca ccaccagcaa gaacaagaaa ggacaagggc cccggacgca 300
 agcaaagacc gaaagagcga acaaaaaaaaa acagacaacc aagcaccca agacagccc 359

<210> 12558
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12558

tgaggtagtg tataatggtg aaacttcctg cttttattcg ttgaccacag agtgggtacct 60

ggagatatgt ctcgagggtc atgagacctt gtggacgtac tgtgggtgtgc tattgtccat 120

aaccaagctt gtcccatatc gaccaagccg gaatattcgt cagtgggaacc tgtgattcct 180

atcaggcgac tttgctgtct cagatagagg tactaacact agcaggggggt tggggggctgc 240

ccctgaaatt gaggaatatg gtgggcttgt gattatacca agtgggaatc gatatcaagt 300

tcaatacaat acagacgcta tatggctctg gtcacgatac cacggcgacg aactcataac 360

tatgcttgac aactacgtct agaaactagt gcaaacatct ggtaatatct atactcatgc 420

gcgn 424

<210> 12559

<211> 559

<212> DNA

<213> Glycine max

<400> 12559

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catacagtca cataaggcta tgtagtgagc ggctgttcga ttgtgtacaa gcaggattgc 120

acgtccagaa tatgctgctg aaccaactat gccttgatgg acacctacca gtgagatcac 180

atgcacacac agagcccatt gactcctgtc tgctcgcacc ggatgctcat acagacaaca 240

aagcttcctc tatatctatg catgacatcg ttgaatgagc acgtattgcc acaccaccaa 300

caccacatgc actatgcttt agctctgaca caacaccacc cgagaatgtg caatgctcac 360

tcttacatcc cgcgacaatg atcttgctgc tcgtcaatga ccgacggaca gactacaaac 420

atatccgtga gtgagtagtc atgtgcataa tggatgatga tgcacgagt gcagacacca 480

acactaaata tctccgttgt tacatagcta gcactcactg atattgtgtg tacagccgaa 540

tacagtggac tattcttcg 559

<210> 12560

<211> 795

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12560

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 taagtagcnt cgcgcaaaac tgcgnnnnnn accccnnnna aaagagagcg gcgtggaaga 120
 ccctccgata gnancnancc ncnnanannn nannnaanac cccancgagn acacgccaac 180
 acacnngcgc cggcaacacn agacaagcan cacanacaat tatattttat agnacgcnac 240
 aacgactaga acagtantca gtgaggcgcg cgcacagcac gaaacactat cactatgcac 300
 aaaccaatgc gacaatacag agacatacgc gtgcagaccg acacacacaa cggaccacag 360
 actgaacacg agcatcacgc acaacaggta gcagcagaac agagacacca ccacagacga 420
 gaanagccac tcgcgtgcmc aacatacaca caatacagag aagacacgcm taacaccgat 480
 aatgagcmca acgaacaatc aacgtacacc acacanacac atacacaaca caacatgcac 540
 acgaacggaa cagaacaaca gcaagaagca cgatgacgcm gaacgcmgac gaacgcmgcm 600
 caccgctgag agacgccaca atatctacaa gggagacaaa acgcagacag tcatacgaaa 660
 ccaccgcmg acacacacta ccgaagggac aacgaaagca cgacacacat ccacagccgm 720
 catgacgatc gcgcmgcmg caagaacgcm acacacacat gcaagacgaa cacaccgcmg 780
 acgaccgmca caacg 795

<210> 12561
 <211> 445
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12561

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 anaagagggt gatcatgcat gcaanaccan aaaacccaaa ccaaggacac gacacaaaga 120
 aaagcatttt tatagaacaa acacaccaga gcggcgcmga aagacacaaac accccgaaca 180
 caaagcaaag cccaagcata acaccgaagg cacagcgaaa agccaaggaa agacgacact 240
 aaaggaagaa caaaagcaac caacagaaaa cgaaagaacg acaaagaaac caaaacgcaa 300
 gacaaaaaca aactaacaac cccacggaaa aagccgcaaa acaaggaac aaaatcaaaa 360
 gaatgcagca aaagaacaca caacacacga ccacaaaaga cgaaacgcaa ccaccaaaag 420
 caaaaaagac aagcaaaaaa accac 445

<210> 12562
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12562

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 ggccattgcc tccctcgccc agtattatga tcagtcggtg aggtgcttca cctttggcga 120
 cttccagcta tcacccatgg tggaagaatt tgaagagatc ctaggatgtc ctctacgggg 180
 aaggacacca tacctcttct cagggttcta tccctaatta gctagaattt ctaagatagt 240
 ccaaattctt gcgcaggaat tagaccacat acagcaagtc gtaaattgggg tggttggaat 300
 accgagaaaa tacttggagg acaaagcaag aatcttggca cgtaaaggcg aatgggcccc 360
 gttcatagac attctcgcg tgttgatctt cggaggaagt ctctttccan atgtggat 418

<210> 12563
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12563

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 ctggaggggc caagtgggtc ttattgctat ntacaccctt tctntactaa atgcaccccc 120
 cttttattgt tttggtaatt ctttttccgt aacgttacga aactttacaa atttcgtaac 180
 gatacttaat ttccttccgc aaggttacga atccttacgg attatgtatt tactctttnt 240
 tagctttcga agaagttatg gaaactcacg gattgcgcat aaatacctct tttcgacttn 300
 cgccatatta cggaatttca cggatcgcg aagcctgctg tcttttgagt tctgagacgt 360
 atcacgactt catttattgt gcaac 385

<210> 12564
 <211> 284
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12564

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 aaatacataa gaatacacgt taggaaagaa ggtcttnaca tgaaagagat gtgaatagat 120
 tttggaatct attcgtcata cagagttgta tattggaaat acaaattact aaggagaatg 180
 tataaacaca aaggataatg gaaataacaa tagccttaca agtatgcgtt actaacagta 240
 ctcataccta taatacacat catnttcaga gtagtagcta acat 284

<210> 12565
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12565

gctaataaat ctatatatgg ttaaäcacag cccttgctcg tgggtccttt tttttcatgg 60
 gnataattct ttatgtgggt gtaatgataa ccccatggat caatgcatat accacaaggt 120
 cagtaggagt aaaatatggt gtcttggttt atatgtagat gatattttac ttgtagtcaa 180
 tgatcgggggt ttgctacatg aggtgaaaca atttctctct aagaattttg acatgaagga 240
 tatangtgat gcatcttatg tcatcgacat taagattcat agagatagat ctcgaggtat 300
 tttgggtcta tcacaagaca cctatattaa caaaattcta gagagatatc atatgaaaga 360
 ttgttcacca agtggttgcta tcattgtgaa gggatgtagg tttagtttga actaatgatc 420
 aaagaatgac tctgagaggg acgagatgaa acatattcat tatgcttcaa ttgtcgacag 480
 cctca 485

<210> 12566
 <211> 731
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12566

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 acncagagtg acattttgtga cacactacta catcgacnaa tctagctcgt actcgtggat 120
 tctctagagt caaacctgca agccatgcaa gacaacttaa ctattattct tgtatcacta 180
 tctgaccaca cacaatacag ctaacgaggt ggtatgtatg cgcgagtcta cattagcgag 240

actatactcg taatgcctct aagctatcta tagatctact ctctacacag gacatacctc 300
 ttaaacacaa cacacagata ccttacacaa ggtgtaacgc ctgacatata tgtgaggcta 360
 acacagtcac acagaaggta ccttctcgac tacatatcat tactgacgag tatcggcgcc 420
 acgctatcat ctgacatacg atnatctgga ccgagacaat ccaacttcta taggatacgc 480
 atgctgcccc cggacaacca accgctgtcg gagagacgag agctacgagc tctaccacac 540
 agtacattcg gatgtaatga cactgactga ccacacggac agacgactac tcgctcaatg 600
 catatacatc tcacgccaan atgcgaacca cacactgcac acagtgcgat gacgatgcat 660
 agtaccatat acagagagga caatacagat gaattcgtgt acangcgctn gtagagcgca 720
 caataccacc a 731

<210> 12567
 <211> 566
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12567

ccccccccgc ccacctaggt gtgatccgca cgcaataaat tnaaaaacnn nccagggggtt 60
 gatcgatgcat cctacaccta aaatcacng gctgggggca aacgggtctat aactacataa 120
 ttcagctctt gtttattnat gacctcaaag aggaagctgt gtgctaagag cggaatatata 180
 tagcgcatc gcccaaaaac cacaagatat ggagagaaaa taggacaaac aaagaggaac 240
 cgcacctggt gcgatgtagg acgtacgata catgaccac agggatagat atgctgagat 300
 ccacgaccgt ggccgaaaaa gaaagtcatt agacactgca acaaataga cggcctcgg 360
 aacggcgccg ttctactacg tcacgaaaca cggcgtaagt cgaacagaga gaaagggttct 420
 ataggagtgt ttaacacaca tacggctacc atacgccaac cgaacgaaga taattggtgt 480
 tacagggaaa tacatcctca cacgtcatga agcgaagtct catgacaggc tcccaccggg 540
 tcccatcatt gacagactaa acgccc 566

<210> 12568
 <211> 317
 <212> DNA
 <213> Glycine max

<400> 12568

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aatagcatca tttcttgacac tgaattgttg ggagttagaa gccatcttct caatcaaatt 120
cctaacctca gcatgagtc taccaccaag ggctccacca ctggcagcat caatcatact 180
cctctccatg ttgctaagtc cctcatagaa atattgaaga aggagttgct caaaaatctg 240
gtgatgaggg caactcgac acaatttctt gaatctccac tatgttgctt gatgcctgaa 300
atgtcttttc tgatggt 317

<210> 12569

<211> 484

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12569

cgcttctaca atctnccctt tntggatgat gacaaccctg atatcaagat acacatacac 60
attnnttcc tagtcgatca ctcaactaat tctccatatt ctcccccttt gtttttgagt 120
ttaagcttca cttgaaatta agttatttaa ttatgtgagt tcttgattta attcctattn 180
tctttcccc tttggcagca acaaaaagcc aaagttcgta acaattataa aacatacata 240
aatgactaat catacacaag acattttattg aataatctaa accaatcatg aagcaaaaac 300
atgaataacc catattaata tataaaccac atagtcatat aacataattc ataaaaactt 360
agtcatacta agcaaatagt ataagaagta ctagatgttc anatttcata ataatatagg 420
ccaatacatg actagaaatc tacagtctaa taatattaca cataatagac atctatgatg 480
atgg 484

<210> 12570

<211> 275

<212> DNA

<213> Glycine max

<400> 12570

cttataatta gttaggggtt tctctctgta ttgagctgac taaacacacc tagttgggga 60
tttctaata acagctgatg taaatactta atatctaatt gattatgttt tctatgttca 120
atgcttcctt caatgcttaa tgattggatg cttattggct gatcatccat ttgtgtgcat 180

agttaggcga ctttagcatt gggaaatgta ctgtagcctt agaactttat tgaagcagga 240
tcgaaactta gtcatacaag agtgatctgc ggatt 275

<210> 12571
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12571

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caaattgagc ttccataact atcatgacat gtacatgaaa atcgaggatt tcacatcacg 120
atatttcatg aaacttttat tatcaaaata attaccatt tgttgaacat atactataat 180
tcaaagacta acatgcacag tcgtacactc acacagaatt gaccacaat attaaactat 240
ataccaacg aaactaaca cattaacaca ttaacacatc taacaaatta acacacaccg 300
catatctagc agaaccacag aacactgccc gccatactt aaacaacaca ttgtcctcaa 360
tgtagcacia t 371

<210> 12572
<211> 110
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12572

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tctatcagag actatactag aaggaacacc gtgtagtcta actatctcac 110

<210> 12573
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12573

tggtgtggagc ttcaatggag aatgaagaag aagagaatga caacgtgttg gagagagagg 60
gctgtctgaa atttctgtct tgctaagtga ggagagagat aagctttttg gtcttaaata 120

2025

agcttcgaga	caatataatc	tatcgtcacg	ctaaaaatga	gctacttttg	tttgttaaag	60
taaactagaa	aaaatatact	ccatgtgtat	ggttgatctt	tgtactaacc	aatatttatg	120
aacaatgata	gacgttaact	tctaagggtc	acatgtaaaa	aaaaaaaaaa	atcaagggtc	180
tcaactaaat	ttttcatctt	aagataggcc	tatatacaaa	gaanatgaat	gtaggcagta	240
acatccttca	tttccatcat	gtatacaatg	ctatctccta	tatttttagtc	gacttacaca	300
aaaactctnt	tgatttgctt	aaaaccattt	ctgtgacacc	cacacccata	tcaatttcat	360
atnttagttt	aaaaaattga	accgagaatt	acccttgatt	acataattac	acatatgccc	420
tctctgtggt	tntatacata	ttacaaattt	aatcccatg	aattcaaaca	ttacgta	477

atcaagatgc ggtgacgatg aatggctatc ctatatntaa gttattccct ttatgtgacc 60
tacttggtgtt acacaatact cagcacttgt aatgctatat agttntatag gtgctagtaa 120
tcttggtgggt agattatata ctatttctgc tatgacaggt taaagagaga ataactaccg 180

tcattgttat taatntgtct ttaattatac tagcttgcaa cccgattgt tagattatat 240
tattcaacaa gtattgatat ttttattgta tgatccattg gcctcttctc gtaaggataa 300
tcattgagtc ataaaatggt tttcaccaat agtcataaca cattaatttg ccttattggt 360
gaaatgatat gatgctgact ca 382

<210> 12576
<211> 332
<212> DNA
<213> Glycine max

<400> 12576

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atctctcgag tgcttccggt gtttaatttc aagcgtctcg atattttatg tcctcaaatac 120
agacatcgga gcgaaatggt atgaccattc gaatttgcg agagcttccg tttttcaatt 180
tcgagcgtct agatgagtta tgtcacgaa tcagacatct gaggtaaag gtatgaccat 240
tcgaatttgt cgagagctat cgttggtcaa tgcgagcgt ctagatgagt taggtcatcg 300
aatcgacat ccgtgtagaa agttatgac ca 332

<210> 12577
<211> 495
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12577

tctatataag ctgaaccatt tatcaataaa cacaagtnng agtttattct taatattaga 60
gtttatctct tttatcttag tgagagtgat tctcctaaat tcttgagtga ttcaagaaca 120
ccctggctgt atcaaaggac tttcacaacc tttgtgtgt gccctcgctg gaaagagtga 180
ttctttcctt cctatcatct ccaccttgt tttttcaaac cacaattcca gaaaatccac 240
ctctgcccaa aattatctcg tgaccataac tccatttca cacactcaaa ttaagtgatt 300
cttgagccta aattgaatgt caaaacgaga cttttcacct cgttttgga tcaactcatt 360
tgagagcctg tagcttccgt tattgccatt tctatatttc tgtccagcca ccacttagac 420
ctacgtttac catccattc atccatgta tgcagaaac caccttatta agaccacga 480
gattaaccac cttat 495

<210> 12578
 <211> 378
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12578

caaagcttgc attggaatt tttttctcat ccatcaagat ttagtacttc gagttatcca 60
 ccatatagcc aagccaacgt tgagactatg ttatttgtca agttccagat accagtggagg 120
 ttacattga caagtccagc ctcaaatc tccaaaaggg ggagaagacc aacatcagtt 180
 atgcatagag tccaatcaga ttaatatgct gaagttggag acacaatttg aacaatcatg 240
 gctaggctag cactacaaa accagngcac ttttgaatga ctaaagattg aaagactcgc 300
 aagaaaagta taacacttca tatcatatct ttgactccat gtacttaca gggaaaagat 360
 ttcacttcat ttgatgtt 378

<210> 12579
 <211> 381
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12579

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 ctttggattt ggtacgacca tgctctcttg atttccagct gggaaattgg cgagtggagg 120
 aacgccccgg catttacgca acaagcataa tgtaaaccctc tacggctcta aaagctctat 180
 agttgggcct aggctgtaga gttttcattn tgtaaggct ctgtgtcttt tgtctttgaa 240
 tttataatac aaggatcttt cttcatctgt tcttggcttc taccattct cattcatttg 300
 catgtntact tcttntcta aaacggcaga ttcatgacg agtcnccga aggtactaat 360
 acctngacc cgtctatcaa c 381

<210> 12580
 <211> 450
 <212> DNA
 <213> Glycine max

 <400> 12580

agctaggcac tttcttgctt gagtgaaaat ccatgttctc gcccaaccat ggatcaagtg 60
tctaagaagc ttatgatagg gaaatcacct ttagcaaacc agttccctat gaatagactt 120
ggacaacttc tctaaggact aaactaatc agtatttttg tttcttggtt ttcttattta 180
tacacctttt atcctttatc ttttggtgta agcttggttg atttgtcatt gtaatacacc 240
atgtataagt tactagaggt cgagagtagc tagattatcc ggttcatata ctatggcgat 300
tgggagaatg aattggtaca ttttcttttc tggaaatcct tgggtgtagtg tgagcatgca 360
tatgtacaag ttgttggttt gaataaaaga aaagtaaaaa tgattgactt ataaattatt 420
gccatacaaa gtatcccatt ttgggatgga 450

<210> 12581
<211> 415
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12581

tgctaatgcg acatgtggag atgcgtaagt agaagctntt ctacaaattt gtacgccttg 60
ntntaatttt attnnttttg gcacagaaac caccttgtaa tttaccagta taattattga 120
atatttgctt tttatatgta tattgntgca tgcagtgcatt tntgcaagcc tggaacactt 180
gatcctgaaa aagtaaaagg gaaaatagtg cggtgtagta gagatggaaa aataacatcc 240
gttgccgagg gtcaggaagc tctatctaatt ggcgccgttg caatgctttt gggcaatcaa 300
aatcaaaatg ggagaaccct tcttgagag cctcatgnt tgtctactgt gaccgacagt 360
gaaggcattc aaatcacaac gccaccaga tcgcagaacc cctacgtaat atacc 415

<210> 12582
<211> 391
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12582

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aaatggagtg tgggacttag tttctaaacc acctctataa gtcaattaaa caaaggggtg 120
ttgaaacaac ttgataattc acccatgtac ggatacgaaa tattgttgaa gatgattcaa 180

ccgagaataa ggaatcaact atgatgaaac atgcgctcca agtgcaaggt tagatgctat 240
 aagaatgcta cttgcatttg catgtattat ggatttcaaa ctttttcaga tggatgtaaa 300
 aagtgccttc ctcaatggac gcgttgaaga agatatgtat gtagatcaac cactanggtt 360
 tttggactat gaacatccta accatgtcta c 391

<210> 12583
 <211> 514
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12583

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 ttgaagtatt gtcaatcata atttccattc cttggattac ggagttgaac caagctcaag 120
 ctnttacaaa aaggttcattc aagtcaagtt gaaatatgga agtaaccgtc ctgcataatt 180
 ggngcaaaaag atgaatcgag tcacatcact gcttcgtcta ctgccaaaca tatataggat 240
 tgttgatgtc cttgttactt ccagtttcac cttgacaaag atgtcatgga ccatgttgaa 300
 aatctaaatt gattcaaccc catatcctgc gtaaaaattc gcaatacttc gactgtacat 360
 cattcgcatg cagtccatgc tttcattggt tgcattgctc attgcattct ttccttgaaa 420
 aataatataa aatgaaataa aatgaactca tcaaagagaa aaggacacgc tttacngcgc 480
 ccttaccgaa ctctactat agctagagta atgg 514

<210> 12584
 <211> 183
 <212> DNA
 <213> Glycine max

<400> 12584

agcttcaacc tataggatgac gtgaccattc cagtgttgga gaagatcgac gactatgcct 60
 acaagattga ctgcctagt gagtataatg taagcgccac tttcaatgtg tctgatctat 120
 ctctttatga tgcagatgga ggagtcttgg atttgaggac aaatcctttt caagaatgag 180
 gga 183

<210> 12585

<211> 638
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12585

caccccgcac tctnctatat ccgncagagg agatcngagt antgtcgata tagcaanaaa 60
 acattanacn tannnnnnnn accagagtgg gtttgaattc atagcantng cgacanncan 120
 nanannnaaa cncaagcgtc nntgagaanc ntgctcgaga agacagagcg gagctacact 180
 ctccnctcta ataactaagc tcaattcctt gagaagcgtg cttgataaga tatctagaga 240
 agctagagca cagccacaca tacatctcta gaagctaagc cccccagga tgcaacatgg 300
 gaagcagaaa catgcactac tcacggatac tcggacagtg ggcaaataca aggcgcaaac 360
 gatcgataaa ccaaattctaa tagttaccaa gataatcggc ctcatactta acacatgggc 420
 ttgatagata ctctaattgcg catgagaacc ctcacgccct ccgttggtatg tgacaacaca 480
 aatacggagg agccgatcac cccatgcccg cagcgggtat gaatgcatca naagcgacat 540
 gacctgacgc attacatctc acgagagcat ccaatgcccg aatccactgt atggaacaca 600
 agggccacaa ccgacatccg tgcgaatggt atcacacc 638

<210> 12586
 <211> 449
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12586

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 taaggaggat aagttacaaa gtgaactgat cagtcgtgat gctcattgtg gaaccattga 120
 tcctaagtat gatgtaaagg atggattaat atttagaana cagtaaattg atgattcctg 180
 aaaattcagc tctgagaaac aagaattttac aagaatttca tgacactata atagggggcc 240
 atgcttgaag aacaaaaacc atggctagaa tttgtagtca attttattgg cctaaactgc 300
 aagaagatat taagtcctat atcaaatggt gcagtatcta tcaacacgct aagggtggatc 360
 aagcagtacc tgcattgatt ctgcagcatt acccattcca caacatatct gagaggacat 420
 tgctatggac ttcattacta ntctaccat 449

<210> 12587
 <211> 484
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12587

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 ttagagggtga ctntgagcgt tcgtttatgg aggagtcga gtcaatttct gattattggt 120
 ctcgagtatt ggccgtagtc aatcaactta aaagaaatgg tgaagatggt gatgagggtga 180
 aagtcatgga aaaaatactt cgaacttta atccaagttt tgacttcatt gttaccaaca 240
 ttgaagaaaa caaggattta aagaccatga ctattgagca actaatgggt tccttacaag 300
 catacgaaga ataacaaacg agacaaatta aacaatagga ggctacggag caactactac 360
 aactcaacgt ataggaagca aactatgcaa attacaagag ccaaacagga cgatgtcgtc 420
 gccaatatcg tggacgtgga cgaggacatg gatgagaatg aagatgtggt tacaacaacc 480
 actc 484

<210> 12588
 <211> 420
 <212> DNA
 <213> Glycine max

 <400> 12588

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 aagcccgttg acacgcggtg atttacgtca tcttcgcgc tcacaagatc tgtcactg 120
 attcttgagt cacgtgact ggcggaata ccgagtggt tatccgtata aacttggtgc 180
 tatctgtaag acgaaaaact tgatagcacg cagagactaa cgtcgtcttc tgcgcccttc 240
 gtcaatcgcg gccgacaagc ccgttgacac gcggtgattt acgtcatctt ccgcgctcac 300
 aagatctgtc atactgactt ttgagtcacg ctgacgggca gaaataccg agtggttata 360
 cgtatcaact ttttgcattc tgtaagacga atagcctgac tacacgcaga gactaacgtc 420

<210> 12589
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12589

gttcgtctta cagtatgcan aaagttatac ggataaccac tcttgatttc tcgccccgtca 60
gcgagactca naagtcagta tgaccgatct tgtgagcgcg gaagataacg taaatctcca 120
cgtgtcaacg ggcttgctcg cgcgattga cgaagggcgc agaagacgac gttagactct 180
gcgtgctatc aggccttttcg tcttacagac aacaaaatgt ttatacggat aaccactcgg 240
gtattgtcag ccgtcagcgt gactcagaag tcagtatgac atatcttggt agcgcggaag 300
atgacgtata tctctgcgtg tcaacgggct tgctcggtcgc gattgacgaa gggcgctgaa 360
cactacgtt 369

<210> 12590
<211> 417
<212> DNA
<213> Glycine max

<400> 12590
agcttccatt gctcattttc tagcatctcg atatattatg cgccttaata ggacctccaa 60
gtgaaaattt atgaccattt gaattgctca agagcttcca ttgttcaatt tcgagcgtct 120
cgatatatta tgcacctgaa tcgtacctcc gagttaaagg ttaagaccat ctgaatatct 180
taagagcttc cattgttcaa tttcgagcgt cttgatatat aatacgctc aatcagacct 240
ccgagttaaa agttatgacc atttgaattt ctagagagct tctgtgtgtc aatttcgagc 300
gtctcgatat attatgtgcc tgaatcggac atccgagtga atagttatga ccatttgaat 360
tgctcaagag cttccgttgt tcaatttcag cgtctcgata tattatgcgc ctcaatc 417

<210> 12591
<211> 480
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12591

tacagtatgc ccgagtcatt catccctatg agatgttggt gaagtattgt cgatcagaat 60
tgccattcct tggattatag gggtgaacca agctcatgct tttaaaaaa gggtcatcan 120
gtcaagtga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcaagtc 180

acatcactgc ttcgtctact gccaaacata tttaggaata ttgatgtcct tgttacttcc 240
 agttttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300
 tatcctgcat aaaaattcgc aatacttcaa ctgtacatca ttcgcataca tccatgctnt 360
 tcattgggtg cattgctcat tgcattncct tcttgaaaa taaaatanaa taaaatataa 420
 tgaacttaat cattgggtatc acaaagaaaa aacatgctnt acggcgtcct caccgaactt 480

<210> 12592
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12592

agcttcaaca ttatactcac ttccaggggtg ctggaactac ttcacatgga cttgatgggg 60
 cctatgcaag ttgaaagcct tggaggaaaag aggtatgcct atgggtgtgt ggatgatttc 120
 tccagatcta cctgngtcaa ctttatcaga gaaaaatcag acacctttga agtattcaag 180
 gagttgagtc taagacttca aagagaaaaa gactgtgtca tcaagagaat cangagtgc 240
 catggcagag agtttgaaaa cagcaggtct actgaattct gcacatctga aggcatcact 300
 catgagttct ctgcaaccat tacaccacaa cagaatggca tagttgagag gaaaaacagg 360
 actttgcaag aggctgctac ggtcatgctt catgccaaag aacttnccta taatcctntgc 420
 gctgaagcca tgaacacagc atgctacaat cacaacagag tcacact 467

<210> 12593
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12593

nggagaggat gcttcaatgg aggaaaagaa agagggagag aatgagagat gagggagaac 60
 gaaattgaag gaagaaaaag ggagagaagt tgaactntga gttgtgtctc acaagactct 120
 cattcatcaa agttacaaaa agtggttacac atgcttctat ttatagacta ggtatcttcc 180
 ttgagaagct ttcttaagaa aacttccttg agaagcttct ttgagaaaac ttccttgaga 240
 agctagagct tagctacaca caccatcta aaaactaagc tcacctcctt gacaaaatac 300

atgataatac aaaaaaanagt ccctactaca aagactactc anaatgcctt gaaatacaag 360
gctaaaaccc tatacta 377

<210> 12594
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12594

agcttgttct tgatttttcc taagttctat aacaagctta gaacaataaa cttggccttc 60
tcttaattgt ctttgggctt ggcgaccacg atcaacaaag tactttcgac acctactata 120
tgttgacttg accaacgctg ttattggaat gctgcgacaa tctctcaaca cttattcac 180
acattctgat aggttggttg tcctgtgacc atatcgatcat ccagatgtat cgtaagccat 240
gctccatttt tcctttgaaa tgcgatcaat ccattctgct atggctggac tcagttgacg 300
aaatatttct aagttttgat caaacacatg cttgcaagga gtgtacgttg catcanattt 360
gttatcatca aaatntgtac gtagacatca aactcaaatt aaattaatgt ataaaataaa 420
ccttacccaa tttcttgaac atctctt 447

<210> 12595
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12595

ntaacanagt atccagntng agtgggttgg tcataatata aaccacttgt tcttgtgtcc 60
cacaatgcat catcttgata gctccagtct ttgtaagatc tcgaacgaaa tgaaatcgga 120
catcaatatg tttataacga ccatgcttta ctggattctt cgaaagctta atagcagagc 180
tactatcaca acaaattaca gtagcctggg tctgcatttt acacaatttt cccaacaccc 240
ttttcaacca tatggcttga caagcacacg atgctgcacc tatgaactct gcctctgtag 300
ttgatagact cacaattggg tgtttctttg atgaccaaga gacagcagct gaacacaata 360
agagaacata acccgaagta ctttgtctat catccaaatc tcttgcataa tcac 414

<210> 12596
 <211> 193
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12596

cgcttatttta tcctttttnt tatccacatc tacacccang acaaagaatt catctcacat 60
 aacatgggtat aatgcgtcct cacaattcac tttcagatgt agctaaaatt aatctctcac 120
 ttttatcaaa ggattcaaga tttttgctcc gctgatatcc gacttcaatc tttacagaa 180
 tttactattg atc 193

<210> 12597
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12597

tcatctatct ntccacacac acacattccc tcaattatct ccttgatgt tgtgacatca 60
 ggaagacagc cactgctaata catatgcctt ataagtttaa aacactcctc cattctatca 120
 tggtgggcaa gagccacaat tataattgca taagtcttgg cagtgggaga agatatagat 180
 gaaccttttg ttctcatgaa ctcaaaaaga tctacagcct ctggtaccat acctgctttg 240
 cagtatgtat caatggcagt gttgtacgca taattgtcat gcctatgacc cagttcaacc 300
 atttcttcca gtaatgtcat ccctctagtc nggtgtctaa ccctacacca cccataaacg 360
 aatatattat acgtctccgc attaggcttg actgggttac tcattatctt atacagaagt 420
 tcagcatcct caaccaagca acacttgac agt 453

<210> 12598
 <211> 412
 <212> DNA
 <213> Glycine max

<223> • unsure at all n locations
 <400> 12598

agctntgaat gctctattct atggagttga caagaatctc tgtagactga tcaacatag 60
 cacagtggcc aaggatgcat gggagatcct gaaaaccact catgaaggaa cctccaaagt 120

gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180
 agagtgtatt catgacttcc acatgaacat tcttgatatt gccaatgctt gcactgcctt 240
 gggagaaaaga atgacagatg anaagctggt gagaaagatc ctcagatctt tgcctaagag 300
 acttgacatg atagtcacta caatagatga ggcccaagac atttgcaaca tgagagtaga 360
 atgaactcat tgggcccttc aaacctttga gctangactc tcggatagga ct 412

<210> 12599
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12599

tgctctnagn tacattgatg tatatgggag gaggttgtat gccattcttg ttntattagt 60
 agtgtccac tggtaaaact aactatccan atgttttctt tcgcaaaaaa tggccccaag 120
 gaagcttgcc tcaaagaggt ccaggaagga caaggcagcc gaaggaacta gttccgctcc 180
 ggagtatgac agtcaccgct ttaggagcgc tgtacaccag cagcgcttcg aggccatcaa 240
 gggatggtcg tttctccggg agcgacgcgt ccagctcatg gacgacgaat atactgattt 300
 ccaagaggaa atatggcacc ggcggtgggc atcactgggt actcccatgg ccaagtttga 360
 tccagatata gtccttgagt tttatgccaa tgctttgcc acagacgagg gcgtgcgtga 420
 catgagat 428

<210> 12600
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12600

agcttctaca tagaactggc atgcctttaa ctgcacataa gttatccata gtcaaagtgt 60
 ggtttaaagg gacaccaatt agtgctgcta aagcttcgtc ataatactgc ccaaaatatt 120
 gcatctcaag tgaaagatac cctctttgtc cttctttata agtatctttt caagttgttt 180
 ttgcattaat tatttttttaa cccaaatacc tttaattact ttacaataaa tgttatgcac 240
 taaaaagata aatgcatgat ctctcttata aggattagat aagaagacta gtacacatta 300

attaggcggg aaagtaatta agtgaataaa gagagcttga gtccaataa ttctaaggta 360
gttntggtta aataaaacan attgttaaca aatataatgc tactaactat attaactaac 420

<210> 12601
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12601

acatgcttat ggctatgaat ctcttatttg gttntagaat tagaanaaca tgacaattag 60
gatttgcttg tgagagttta tgctogaatt tgggctgccc catgtttgat actttacata 120
gaggtagtgt ggaaaacacc ttgcaatagt gtgtatacat aggtaaatat aaagagcatg 180
aaattcctag caaagtgtga atgattgtct tcctaaatga atgtatgata gtgtggaata 240
cctttttgaa tgcaaatatg tgcaggatgt aattagcttt ccaatatgca tataaataaa 300
tatgagtga acagtaaaaa tttgtatggt gtacttcaca tgtatgtaag tagtttgtga 360
tagcaaatgt ttangatata aattacgtgt aaaagttgac gcaacacttt gagcatg 417

<210> 12602
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12602

agcttcacct tctggtcttc ctcatagttg ttgcatgaga aaacatgctc tattttcatc 60
tcccactcca agtaggcctc cggatcattc tttcctttaa atggagggaat gttgagttta 120
ataccatcaa ttcggttttg tctaggaaca ccatcattcc ctcttctcct cttttcttct 180
tcattatgat ctctattctc catttgatcc aacctctcat ggagcgcac atctcgttgt 240
ttcattaacc tctccaaatg ttgcatcaaa gcttgcatth ggaattgcga aagccccact 300
ccatcattag gattagtacc tgacatctca nacaacaaaa tcaaacgtaa caagacaatt 360
atagttgctg tttgaatacc tcaccacttc aagtgtatca cacaattatg gctnttctct 420
aatgaaacac ttcttgcttn taccactcta attcnccttg agttctt 467

<210> 12603

<211> 406
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12603

 gctctagatg aggggttcact gtaatcaagc aagtcggaga cctatcatga tcccagattc 60
 acctncgctc cttatgttcc catgaacccg ggtatagggc cctttttcac tcacagtgtg 120
 tgcaaatagt gttggtgttt gtgtgcatca aatgaataaa tatttaccct atgcatacat 180
 tntaaaatgc actaacagca acatagagtt tatatacata agaacataat gaagggaaac 240
 caacaaaggg ataagtcatg gtaaaacatt gcacaagatt aaatggccta actctctaaa 300
 aacaatcccc agtggagtcg ccaactgtcg caacctaccc ttcggcgggg gggcgacgcg 360
 agactcgcgg gatgctgtgt ccacgaaagg aatcgcgcg gagtcg 406

<210> 12604
 <211> 519
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12604

 gaactgtntt ttgtgacggt cgtcgatacg ccaaccagct cggacccggg atcctcagag 60
 tcacctgcgg catgcaacct gcactcattg ttttggctaa ttatccatta ctgggccccg 120
 cctgtcttaa taaaacatta gttctcttcc ggagaaacaa cacataattc ggacttggtt 180
 acaccgttca ttaatataca gatgcacatg cccactgtat acgagtattt ttttgttccc 240
 tgggccttct tatatcgtea aacagtatac tagaagaaag ggtgcatcta ccatattata 300
 taacngngnt atttatatct tgggatctaa cggtcgatat aagacgcact cacatattgc 360
 ttcatccgct ccgcttttta accaggaaac gtggcgactg ttcaaaaacg gtggcgacta 420
 ttttttcctt ataccaccat ccagagaaat atcgtgagga gaacctcctc tctcactaaa 480
 ctattgtcgc acaacaacct aaacgagatt ttggaaagg 519

<210> 12605
 <211> 522
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12605

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nggtagattc tttaatatca ttgaagaata taatgatgtt tatattagat tcacatttac   60
caagttccat gcatacattn gtaatatata tctttgtaat gttntatatt ttctgttggt  120
cccttctaatt tatntaatt gtttcttgat tgtcagttga ctgaacaaaa attaacacga  180
aaggaggaag gtatgtcagt ggtttgtaa acttatatat atatatatat atatatatat  240
atatatatat atatatatat atatatatat atatatatat atatatatat atatatatat  300
atacatgtac ttacgtgcat gtnattgtt acatttagag agagatagag aactgataga  360
aatcatactt gtgttctcat tattgatctg atgacacaa canatgtcta tatatagagc  420
agagttcaca atgaggccta tctctgactc taacactcac tatctgagtg tgtgagtcac  480
tcacagactc acagcatact atctaattaa gaagagacag cn                        522

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<210> 12606
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12606

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agcttgttcc attgttgat cacagtgata gatcatgac ttttcattnt gtagaacatc   60
caaccctga tgttgatat gtttccaaaa tagaatgtat aaggagtttt gttcaattt  120
ttctgggtat tatattatta tttccccctt ctgggttcagt tttatgtcat ttaaagtttg  180
ggaaaatagt gggatatgaag catatttatg ctagaggggtg gtgtttgggt gtgttatctt  240
ttgtatggct tctcctttat attgaacttc agactaagaa gtatttgaag catatgagtg  300
atcttaaatn taacaatttt nttcataatt attatagcca agtctgcatt ggttttaatt  360
ttttctaaac tataactaatt tact                                          384

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<210> 12607
<211> 481
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12607

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tttgcaagct ggaatcattt atcatacctc tgatagccaa tgggtgagtt ccgaagaana   60

```

ctggcctccc gtgataaana atgagaagga ggagttgatt cctacttgng tgcagaacag 120
 ttggagagtc tgcacgcact ataggaggct gaaccagggt accaaaaagg accattntcc 180
 actgcattca ttgatcagat gcttgaacgc ctggtaggta aatctcacta ctgtttcctt 240
 gatggttntt ctggttatat gcaaactcact attgctcctg aggatcagga gaagaccgca 300
 ttcacctgcc ccttcggcac ttttgccat aagaggatgc ctttcgggtct gtgcaatgcc 360
 cctggtacct tccagcgggtg catgatgtag tagtttagtg atattttaga aaattgcata 420
 gaggtgttta tggatgattt cactgtatat gaatnctctt ttcataattg tttggatagt 480
 c 481

<210> 12608
 <211> 462
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12608

agcttctaaa ctttgtacaa gaatgaagct ctgataccac ttgttagaca ngtggcctca 60
 gatattctta gaaggggggg gttgaattaa gatattcgaa actttttccc ctaattaaaa 120
 atctatctta cttntactt aagttatgaa ttcccttaat gacaatcttc ttaaataatta 180
 attcaaatga agcaacttga atatgaatat aaagcaataa taaataaagg agattaaggg 240
 aagagaaaat gcaaactcag ttttatactg gttcggccac acccttgtgc ctacgtccag 300
 tccccagca acccgcttga gagttccact aacttgnaa ttccttttac aagttctaaa 360
 cacacaagga ctaccctatc tttgtgttta gagattcttt acaacaagag actcacagtc 420
 tcttaatccc ttanagaatg agaagaagaa gaggaacaaa tc 462

<210> 12609
 <211> 497
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12609

atgagaatca tganactggc caaatacagg ctaaaggccc aagtggagaa tgacaaagcc 60
 cccgagtgga gaatgatgaa ggcccaagtg gagaaggatg aangcccaga ggcagagaca 120

ctatcaagac tatcaattgt tgctaaaggg cccaaactaa ttgaaggccc aagttaaata 180
 agttcttagt tataatttat ttttattgta attntgaccc aaactgttta gaaggcccat 240
 gtctattttt atctttttgt tcagctacac tataagtatt ggtttttgtt ntgaataaga 300
 aaacttttgg catttgataa agttgggtga gagtttctct ctgggttctt tgttgaacca 360
 attatcagac ttatcaaggt aatccttgtg gtgtctaccc agacttatct tccttcaccg 420
 gaagtggcgt ctaccctgac ttatcttctt tcaccggaag tgggtgtctac cctgacttat 480
 cttccttcac cggaagt 497

<210> 12610
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12610

agctntagag cttgtatata gtttatcttt ttacatgcct aactctctga atggcattta 60
 tattaatggt tgcattcttag tctctatctt ttcatatgta catcatgcat catcatgtag 120
 aggttaggaag attgttcact gcataaaact ctatgtttta atcaattata aggctgattg 180
 taatcgatta cacaagtgtt tgtagctcgc aaagagattt tagttgctgt ttaatcaaat 240
 accagttaac cataattgat tacatagttc agttgagacc atgtctgggt tttcatcagt 300
 ctctactcta atcgattacc aggggatcat tatcgattac ttcattcttg aaagtgggtcc 360
 agaagtgtca ataacactta accgactaca tcaagaatta atcattacat tgtc 414

<210> 12611
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12611

gagatgaann aaattatact agatcaaag anattgatta ttttttataa taaacatcaa 60
 cacatatatc tcaagaaaga tatattatat aacatcttat cagacacaat ctctataact 120
 tggaagagaa ttccataaac ccatagaacc atcacatata gacctctaan aaaaacaaaa 180
 atcaagacta aaaaatttca agatagatgt anaactaatt tttattntca tatgactatt 240

tgatacatgt aaattaaaat gtcattatat attaataatc aagacagtaa tttaattaca 300
 ataattagta cattntatgg aaataaatat tcaaaatgaa nacaatatat ntacaagtgt 360
 tcaaatcgat tggaatattn tttcttttct accgcctaata chtaattccg aatatttaata 420
 tgatttgaat atttata 437

<210> 12612
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12612

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 aaatatgatc atcctgcttt gacaaataaa aagcctatgg caaatagaga ggatgataag 120
 gaggaaggaa cccatgttgt gactgtcggt tctacatgtc caaatttct agcaactcaa 180
 cagtgtcatt actcaaccaa tatcagcctt tctcattacc caccactcag tcatgcacaa 240
 aggtcattcc taaatcagcc caaagcttgc ctttcgtgca ctcaatgcc aacaccaccc 300
 ttaacacaaa ccaaaacacc aaccatggag ggaggtttcc agtggaaaag tgatgcaatc 360
 ctaccccgca agggcattgg c 381

<210> 12613
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12613

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 ttgatntagt ctcttctang gttntgcac cgctaagcga gttggctgcc tctaataatgt 120
 gaatgtataa atacatgatt ctgatgatgt caaagaagaa tcaaacaagg tggttgcttc 180
 aaaggataag cattgcttca agattaatac aagggttgctt caacaaacaa agccttgctt 240
 caagattaac tcaagatcaa gccttgctc anaacaaagt gtttccaaga catccaaggc 300
 tctggtaatc aattactang cagcgtaatc gattaccaga agagaatttt gaaaaatagc 360
 tggtaaaaag ggtttt 376

<210> 12614
 <211> 562
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12614

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 gtcgattcta tagagtctac ctgcatgcat gcattgcac tatgagtgt tcttctatat 120
 gtatcacata gaagttgggt cccatctcta ttagtgatga cattagagct cattcgtgag 180
 aaacactctc tgatttcgga catgatgac tatcgacttt aagaatgaga tacagatgct 240
 cactttgtat caggaacatt ttcttgctcg agacgtctta tgatgtctta aagcatgact 300
 caagattcat gggccttgct tacatgattc tagatgaaga ttcattgactc atgatactag 360
 agtgcagaga agactcaatc aagatattgc tgattaggtc ctactttata tagcgtgaca 420
 catggatgct tctctactca tcgttgatga cgagtcatta ctctctggaa tcgacactag 480
 atagtcta atcgtgtgcagt agctattgct cttactatgt ntcgactgaa ctacaccgtc 540
 caattgattt angaagctct tn 562

<210> 12615
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12615

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 tagcttagct ctagcttctc aaggaagttt tgctcanaga agtttctcaa ggaagttttc 120
 tcaagaaagc ttctcaagga agctacctag tctataaata gaagcatgtg taacacttgt 180
 tgtaactttg atgaatgaga gtcttggtgag acacaactca nagttcaact tctctccctt 240
 tntcttccct caatttcgtg cccccccctc tctctttctc tccctctttc ttttctcca 300
 ttgaagcatc ctctccaagc ttcttatcca aggctcatct tgggtggtgaa gtccttctct 360
 ccatggctta ttccttaatg gatgggcgct cctctcacct ctnttccctt gtcttctgct 420
 gcattctcat ggtggaaaat caccattaaa ggatcccat gaagctc 467

<210> 12616
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12616

agctntacaa agcatttatg aagctccacc gcatgagtga taagaccttt aatcaagttg 60
 aaatcaaacc tgagatgatt tcacgtcatt tacttttcta tttcacaaga ccactaaagt 120
 cttgcctcca cattgacaag gtcttgcttn ctacgtgtgc aaagatttca cgctcaccat 180
 gatggcctat tcatactacc acaagtaaca gagcattgca tanacaaagg caaacacata 240
 agacatacat actgtgcana atntgtcaat gaaggaaaag catgtgcatt aaagagaaat 300
 aataattgcc accattacaa ggccctatgca gccaacatcc aacaatgtag aaaagaagga 360
 aataaagaga gtgaagccta aacttaagcg tcatttgctt tgctctcggc accctgcttc 420
 tcattctgtaa gcctactctt cacaacaact tcttcttt 458

<210> 12617
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12617

tcttgacttc aagtttcata gattingctnt taactntgtg tggttattcc atctaacgac 60
 actcaccaat attctagagt agatcaatat atacacacac atacataact actgatattt 120
 agtttcttct ttgacacaat cttaacgtga ataatactgc aggaggtaca atgctagaga 180
 tagtcaaaag ttgcatacgt accaaattca ctagtcaatt tgtggatcta gttgctataa 240
 gtaccctcta ctccatgggc aagattatta aatgtcaaat gtgtctttgt tcttttatct 300
 ttattctaag ttgcgaaaat tcattgcatg aggctccac ctacttnggg ttgngaaga 360
 tggatgtaca caaccttacc ctanataaat aggcccaatt cttttaat 408

<210> 12618
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 12618

agcttataat atattttatac gctcgaaatt aaacatcgga aactctcgga aaattcaa 60

agtcataact attcacacgg atgtccgatt caggcttata atatatcgat acgctcgaaa 120

ttaaacatcg gaaactctcg cgaaattcaa atggtcataa cttttcacac ggatatccga 180

ttcgggcaca taatatgtcg agaagctcga tattgaacaa cgaaagttct ttagaaattc 240

aaatggtctt aacttttcac acggatgtcc gattcaggag aatcacatat cgagacgctc 300

aaattgagca acagaagctc ttgagaaatt caaatggtca taacttttca cacggatggt 360

agattaagga gcatcacata ttgatacgct cgaaaatg 398

<210> 12619

<211> 419

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12619

tctacttatg tggcagggcg ggcttccttc actttcttgt ctccaacgct agctctgacc 60

actgtccttc cttcccgtta tgcttctttt catgtccgcc tgagtgggct tatagcctan 120

accatacttc ccacgatttc cttgggtttt tatcaggcta gttatgccgc cattgtcttt 180

gcctaaaccc atcccgggtt cataaccgtt cccaacata actcgggcca tcattaccgc 240

cgcacgagac agacaagggt gcccaaagag ggagtccacg gaggaatgc tgaccacctc 300

anaagactgg aaagcgggtt ctaacgattc ttctgcggct tccacataag gcatggagga 360

tgggcagctt accaagatat cttntctgcc tgacacgatg accaagtgcc cctccacta 419

<210> 12620

<211> 753

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12620

actcaaagta tgtccactca ncatngtcgg ggtgtantca gcancacntg agtcacnana 60

ntactattng tgttctagac gcannnnnncn tcnnnnnaag agaganccga tggattgttg 120

acgatctntt agaagagacc cgccacgaat aangaaataa atccattaac taacataata 180

gagttaatag tnatattaag aatatgattt gttatttgnn aaatattagg gagatagaag 240
 attagagcga gagatgaaga cttagagaag taatagtga tagagtgata aagctaagt 300
 tctaagtgt gtatgcacaa cgaggtatga tacaggtata gtgagaagaa ctaatgaatg 360
 tgcggtggtg atcagaatag tggaagcata gtaagtacat gtgtcgatgg aatattatat 420
 agatggaata taggaagtag cggagtggga ggatggacga gatgatagaa gtacgagtaa 480
 tatgttagag gtggacagtg gttgtgacac atagcagata gagtactgtg gattgagaat 540
 gatatagcga ctatatgagg cgatatataa tctgagagtt atgagtatat agatatgaan 600
 agactgaaca tgatgaagag aaatgagaga taggaggacg gctgagagtc aagcgtagta 660
 tctgagtata gaagacgagg tgcagggcgt aatatggtgc gtagaatcaa ctgtcgatga 720
 tagagtatat tgtcgggaga tgataatgcg tag 753

<210> 12621
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12621

tctcccccaa ttntctataa ataggtggag aagtgaagta gaanagggtt cagcctctta 60
 tgcacttctc tctctttcga atatgcttaa gaaaattggt tccgtgaaga agatccaagt 120
 cgaggcgctt ccgtaacgtt tccataacgt ttccgtgagt gatttcgcga aggttttcga 180
 ccgttcttcg acgttcttca ttcgttcttc agtcttcaac gggttaagtac ctcaaaccaa 240
 gcttttcaat tcattctatg tatccgtggt ggtccacact tggtttcatg tattcctatt 300
 ctcgtttcat tcactttnta taccctcttt tgacgtgctt aagccatttt atttaagtca 360
 tctctcgctt aacctaataa taatatagat gtccaccgat c 401

<210> 12622
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12622

agcttgtgaa gtatgttttt tggatgagtc gtcttcaatc actgataata gtgaagttga 60

tcaactgaga cagacatgat ttgcatatta aacttcanac aggcaacact aaccagaagc 360
atgcatagcc tcatacatat gtataaagta taatctaate ttgtcaaate tttcagcagc 420
atatctaaaa attcaacaag atatatgaac 450

<210> 12625
<211> 353
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12625

tgtggcgact gttaaggata gcaatatatt tgatacactt ccatttagca tactggtttc 60
tcattgagtgt ttgcatcccc accaacaaaag atttccttac tatcatcgtt cgagggtatgt 120
atgtgattct cacacttatg tgettaagta ttataggcaa tgggtgacat gttactgttc 180
tttagtagta cattgtaatt cattgagtga gccatagttc cccgtttgag attgaatata 240
acgattaata cagacagtnt ggatcaattg gtgtattcaa tcttgaattg tccgtttgga 300
cagtttgga agacaaattg tttttacttc attntgactt ataagttaag tat 353

<210> 12626
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12626

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ttccaagtgt aactgttaaa ataattaatt gtggtgaaca taatgagggt gagaattcct 120
cagcccttta tggagaatac taagttctac ccttaatatg aaatatgatt atatgaataa 180
ttaggagtgt aagcagggtgc gggtcacctg cgaacctgaa ttgatccaaa ccaacccaaa 240
tagtttggtg tgggtaattn ttttggttggt gtcanacca aactggacca atcaaacctg 300
ttgagttntg ggttggtgca cgggttttaa tacttgaaaa tgctgactcg ctgacttggc 360
ccattgacctt attaatgtgt attanattat tattattatt attaatatat gtaatatata 420
atatatantt ttaaatttta agaaatcaaa tactatngac tattgattac 470

<210> 12627
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 12627

ttcgtcttct tgttttagtcc agtcttcttc tggctttctt tcatcagtgg gctttccttc 60
 tgtgtgcagc atcttgggat gtaccagcc tttgatgaca gctttccagg ttctgctatc 120
 cagggatttg aggaacggca ccattcttgc tttccagtat tcatagttag ttccatccaa 180
 aattggaggt ctgttcaactg gtcctccttc tttctccatc gtcacagaa tgcacatccc 240
 tagatctcac tctgtgattt cgagtgttgg ctctgatacc aattgaaatt ctgataccag 300
 gggacagatg tcgtaccgga tgtcacgaca tcacgcttca gaacatg 347

<210> 12628
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12628

agctntgagc aaatcgaaat gacaataact ttatacacgg atgtccggtt gagtcccgtg 60
 agatatcgag acgctcaaaa tttagatccg aagctctgag aaaattgaat tgacaataac 120
 tttatacacg gatgtccggt tgagtcctgt aatatatcga gacgctgcaa aatgaaaacg 180
 gaagctcgta ggaaattcaa acgacaataa ctttttactt ggatgtccga ctgaatcggg 240
 taatatatcg agacgctcaa aattgagact agaagctctg agcaaattga aatgacaata 300
 actntataca cggatgtccg gatgagtcct gtaatatatc gagacgctca aaatntagat 360
 ccgacgctct gagagaattg aatcgcaata actntataca c 401

<210> 12629
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12629

tttcgaccat ctcgatatat taccagactc atccggactt ccgtatataa acttattgtc 60
 aattaaattg tctcagagct ttggatcaaa attntgagcg tctcgatata ttacgggatt 120

cattcagaca tccgagtaaa aaattattgt cgttagaatt tgatacgagc ttccgttttc 180
aatttgagc atctctcgct aaattgcat aggctatcgg gcatccgaga naaaagttat 240
tgctgtttca tatttctaag agtttccgtt ttcaatttgg agtgtctcaa tatattacgg 300
gactcaaccg gacatccgtg tataaagtta ttgtcatttc aatttgctca gagcttctag 360
tctcaattnt gagcgtctca atatattatc ccgattcaat cggacatgag agtaanaagt 420
tattgtcgtt tgaatttcct acgagcttcc gttntcaatt tggagcgtct cgatatatta 480
ca 482

<210> 12630
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12630

agcttggaag gtattcatat cacacaaaat atatatatgt atgttttaggt agaaagatac 60
cttagatatg catgtatgta aacaaaaaca cacttcacaa aatatatata tatgtatgtt 120
taggtagcaa gataccttag atatgcatgt atgtagcaaa aagatacctc acaaaatata 180
tatatatatg tatggtagca agataccttg gatatgcatg tatgtagcaa aaagatacct 240
cacaaaatat atatatgtat gtttaggttag caagatacct tggatatgca tgtatatagc 300
aaaaatacct cacaaaaata tacacatgtt taggtagcan aatacctcat gaaaaaaaaa 360
aaaaaccaac aagattaaga aataaacaaa tgataatgat aaaa 404

<210> 12631
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12631

tatcatttca gcaaatttg tgaataatgt tctagtagag tatttgtctg ctattnttgt 60
cactaattag ctaagctctg tatgactaaa tccaaaccaa gtgacttgca tccatattgt 120
cctaaggtag ataggacatt tcataggttg agtagaaata atacgagtgt tatagctctg 180
ctagaaagtg taatgcatag tcatttcac tctgattgtg tttgtgagcc tagttatagt 240

tntagtgtctt ctgagtcaga aattagtgtc gatacaattg cagataacaa ccaaactctt 300
aatgaattgg ctacgcttaa tgttgtgtat taaccatggn gtattcaata tcttgaggca 360
gaggttagtt atgagctaaa gtctagacta atcca 395

<210> 12632
<211> 440
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12632

agcttggaat atattatntg aattctagtc ccccttatag actctgtgaa gatgtttgct 60
agttgggtcat tagaactatc aaattntgta atgagttctt tggaaaaaac cttttcctga 120
atgaaatgac aagtaaattt aatatgcata gttcatccat gaaacatcat attggtggct 180
atatgaagag ctttgcttga ttgtcacaac ataatttcac ctattggatg tctctaaact 240
tcaattcttg aaggagatat ttaatccaaa cgtgtgcaca agtagctgta cacatatcct 300
tatactctac ttctgcacgg tgcagtaaca ttttgctttt tactcttnca agagacaata 360
ttccctccaa taggtacaca atacccana atacagcatt tgtcaatagg cgagcttgcc 420
caacctatat cacaatatcc 440

<210> 12633
<211> 325
<212> DNA
<213> Glycine max
<400> 12633

taagacagcc agtaaccaat agaaaagatc aagcctgtcc tggttaatgt cgttggtgtg 60
aagccagcca gcagctgaag aagaagaagt tgaagtgatc ttattgacca aagaaaccaa 120
aagtgtgctc aagtaaaagc caaatgagta agagcaatat gtgatggctg taaagaatgc 180
ttgcatccct ttcaaggact gtttataaaa gaactcaagg aggccaatgg ctgtgaacat 240
ctctgacaag ccaaatatca agtattgtgg gggtatccaa aagatggaca aaactttgtg 300
atgggttcaca gctgcgtccc ttctc 325

<210> 12634

<211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12634

 agcttggcct catacttttct tataatange tgccatacag tccagctttt agcacttacc 60
 cctactggaa ttccaagata agagaaagga aatttcagtt gactaccatt gagaaattga 120
 gttgcatccc tgcaccaacc ctctgatttg ccaggcagc caaaatggct tntagaataa 180
 tttatcttaa gacaaaaaac cttctcaaaa caccttagga tacactttaa gactctaaca 240
 ttatcctgag tggcacaaat aactaaagca cagtgaattt gggtaattct ctgttgccct 300
 tgtggcttgt tgggcatggg ctatangttt agtatttacc tacctacaag accttgatag 360
 aaaaactttt tagaacattg aaaacttagt cagatga 397

<210> 12635
 <211> 243
 <212> DNA
 <213> Glycine max

 <400> 12635

 tcctatgaat gtagataagc attttgtctc tactctctaa ccattactgt cactacattc 60
 tgggggttct taatcttgat cgactactct atgtgacacc aatactgaac ttgtgaaatc 120
 actgaatctt ttggactgac tcacttattc ttttgctaatt tcatacataag tctcttccaa 180
 aagtgaaga tttagtaagg ggtaacaatt atatactcac gtaattatta tgcaatataa 240
 tat 243

<210> 12636
 <211> 466
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12636

 tgaagatatt ctcatgaac ggcaagagag tctgggtgtgg gggaagtatc tgctgctcat 60
 actatacacg actgaattga aagggtgata actgtgccag tgtatccgag gacataataa 120
 natgatcaga caccgtgcta tccaacacaa gagatgtata tgacaaacgt accgcatata 180

[illegible]

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<223>      unsure at all n locations
<400>      12637
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<210>	12638
<211>	470
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      12638
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5339

gagtcgaggc gctgcagaga tgtgactgtg gatcactctc ttcgttattt ctcttgggag 360
 tcttgtgtta tgcacaatgg tcgattattt nttctaaagg ataggatgta atctttgtac 420
 ccttacgtat ctcttttgat attatatatg gacttaatct ttctactcat 470

<210> 12639
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12639

ctaagcttat tagttgtgca tttaatatta ttgtctctta tggaagaacg gtatgcattt 60
 cttgcattgc atacttgctt gattgttgta taactattga cattgtgttc cttcaacggt 120
 agcagaatat ttcttggttt caccattgac ttgtgcatat cagcaataat aattntttta 180
 tccttagtca attgaccagc gtataaatgt ccaactaatg acttggccaa ttcattgattg 240
 tgactctcac acattcactt caccatccat ccttcgctc caaccactgg tttcccat 300
 agcttatagg gacaccata ttttctacta tcagtaactg ttcttacaaa atctttcttc 360
 ctggctctat actgactact cctttcacaa ccaattaaga catatggcac tccttctctc 420
 ataccaggta ttgtggttga cctcataatc act 453

<210> 12640
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12640

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 gcacaacatg ttttcccat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120
 ctccaactga gctcacgtac tcccacgtag cccatattct cgtttctctc aataccgggt 180
 ccccatcaat cctcccatc ttcacacaa tccaagcaaa acaacattca nacagcacia 240
 gctatcacag ccaagcaaaa cagagcaaag gcagaaaact ctgccaaaac accaaccana 300
 tcacnagctt tctacttaa agaccncagt aacaattctt tcgttcggtt cattaaccgt 360
 tggatcaact cgaaaattta ctggaagtct tagtacataa gccacattt tgaaccgtgg 420

gatctactag caaacatcca gaactcactc tacattactc

460

<210> 12641
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12641

tctacttatg tggcagggcg ggcttccttc actttcttgt ctccaatgcg agctctgacc 60
actgttcttc cttcccgcga tgctcctttt catgtccgcc tgagtgggct tatagcctat 120
accatacttc ccacgatttc cttgggttat tatcaggcta gttatgccgc cattgtcttt 180
gcctagaccc atcccgggtt cataaccgtt ccccaacata actcggggcca tcattaccgc 240
cgcatcggac agacaagggt gcccaaagag ggagtccacg gaggaaatgc tgaccacctc 300
anaagactgg anagcggttt ctaacgattc ttccgcggtt tcacgtaagg catggaggat 360
gggtagctta ccaagatatc ttctcgcct gacacgatga ccaagtgcc ctccactacg 420
aatctc 426

<210> 12642
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12642

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atttaaactc gacttgacca ggaaataggc acttgcagtc gacaaggacg gtgtggatga 120
cactgtctgt gagaaataca gcattagcaa ggagaaatgg gcccaattnt gtcagaaccg 180
caaagacccc tcgtaggagg tatgtacttt gtcattntag ttgttttcta cacaaaaata 240
acttcttata attcattnta gtaatcattn tctttattgt tcgattnttg taggatgtgc 300
ggaanaaggc acaggccatc cagaagcaaa aactgcccc ccacgtgttg tctcgtgggg 360
gttatgaata tttagaacia aagctaattg ctgagaagat a 401

<210> 12643
<211> 453
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12643

ntgagaggac aagttctgaa ccttggagct ataannattt gtgatatact tttatgcttc 60
tcaacaatag aattttatgc tagtgtatta accatatact agcaaaaatt gaaaacttgt 120
agttgcagtt ttaagcctat gacatgattt ttctaagtga gtctnttggt tgaacagttt 180
gagttgaatc tattattaag ggatttgggc tacgtatacn agtatttata tcaaataatt 240
tagttgaaat gcaagggana aaggccaatt ttcagcattt gtagttcata gaagaaattt 300
gtgttttaac tctacagatg gttcattgat atccaaatca tgtattgagt tctcatggct 360
tattcaagtg ttaaaataat tntatggctt ctttctttaa tggatgttct agagtatctg 420
gtcaagttta attgttcatt tctgatcact gat 453

<210> 12644

<211> 314

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12644

agcttctntg agagttcttt cttgagaagc tagagcttag ctacgcacac ccctctcata 60
actaagctca cctcctagag aagattcctt aagaagctag agcttagcta cacatacctc 120
tctaatagct aagctcaact ccttgagatg agaagctaga gcttagctac acacccccta 180
taatagctaa gtcaccctc atgaagaaat acatgaaaaa acataaatgt ccctactact 240
aagactactc aaaatgcctc gaaatacaag gcctaaacga aggataaacc tattctaata 300
tttacaaga taag 314

<210> 12645

<211> 393

<212> DNA

<213> Glycine max

<400> 12645

attgtgtatt taagagtctg gagtcaatct agacactcaa tcctatgcca taattcataa 60
tatgtaagat cgatatgatg atagtcattg gcacaaatat tgacttctgt gactgctaac 120

tagcttgcaa tggacgatat tcggttatata gtaatgaact ctccattcag taacacaaat 180
 ttgtgtaatt agttcgctca aatctattat cttgtgtgtg caactataaa tcttataatt 240
 ctatttgaca tccttacatt tggcattatg taacaaaaga tgcaagaaaa agttactaaa 300
 cgttatatag agatggcatt ggatggtata tatagcttgt ctgcacacgc caaatcttat 360
 ttgattactc tgtccgagat acaggtgtat ata 393

<210> 12646
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12646

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 atagatactt attgtacaat taanattttg atgtacctac gtaatgctaa tgcaaattgt 120
 ttgaaaaaca acactaacat gttaattatg cctttgaggt aattgtctaa cctattatgc 180
 aacgaacaaa accaaatgac aacatthttcc ttaagcaaaa tggcgaccat atttctatgt 240
 gcactgcatt ggagaccaac atagggttatt atactattat acattaatta aattcatttt 300
 gtcagcttaa cttaccca 318

<210> 12647
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12647

ggctntagat aatacattat tattgatcta aagtatatcc gggcatgtat tactattatt 60
 tatactgtta aanaaagtac aactcact cgtggtgtga ataacagagg ctctcctac 120
 aaacactttg ttagtggacc ccactatctg gaaacttaaa gaaagggtga agattgcacg 180
 acacttcact ttcttataat ctgttaaagc tgtctgctnt tccacatcat ccacacacaa 240
 cacaaccaac atcaacatgc tttagatttt gaattccaaa tttgaatgta tagtgtaggc 300
 gccacatac aaacggccac atacataaaa caaagtaaaa tata 344

<210> 12648

<211> 463
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12648

gcctcattct gtttatctat taaaggtctt gaacgaagct catgtagcat cgaacatcta 60
 cgtacaaagc tangtgcgcg actcgtcaat aacgatcacc cgtcaactga ctatcatngc 120
 ctntagcaga agaagacatg ctcgacgaag ggagagggca taacagggct taccatgtgc 180
 cagccacacg catggaccac gtcgtggcca atgtatctct cgctcacggc accaagtaaa 240
 acgtgatgca ccaaagcacg ttggagacag atccgtttta cgctcccca caaacgcca 300
 cgaccatggt ggacacggca ctccacggaa cgccgctaga ggtgatgaga cagaatgcct 360
 ncctgtgcaa acaggcacc tactcgacag gatacgtcca agaatggatg tcaccagat 420
 aactgccat cggaccgcg gcaactcccc tgcgactac ccc 463

<210> 12649
 <211> 249
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12649

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 ctctaaaact attggagtct ctaagaacgt attcatgcta tcaacatcaa tcttgattaa 120
 atgtcctctt accctcactt gcttaaggct ctggtcttcc gggctatata agttagcata 180
 aaactccttc accatagcta catctatgct tccatcttgg agattggcga gacgtttgtg 240
 taagttatt 249

<210> 12650
 <211> 455
 <212> DNA
 <213> Glycine max

 <400> 12650

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 actgcgcacg tgacatatat ataataaaca aaacatcacg ttgtgcaaaa tcaatatata 120

tctaagacat tcgattttgc tagccaaaca caagegcata tatgattcat cagtgtgcat 180
ctcatttaac aagtatttga atatgtcacc actatattcg atatctgcta ccataattaa 240
ctatgaaatg ccacatataa cataatccaa tcactataaa caaatgcctg tctataatac 300
cccgtattta ctatcccata agatcaacat acgaaacact ctaatatatc tgcggctccc 360
acattattgg cgcactgtga ccttcattca cacaacacgt acgttcttac ttcttctcct 420
acaaacacca ccactatcac gctaacacga ctccg 455

<210> 12651
<211> 212
<212> DNA
<213> Glycine max

<400> 12651
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gtactgtctt gtcaaagctt gtcaagctgt ctctctccta ttctgatata tatatgtcat 120
ttgaatgaca tataagctct gcaagtgagt gaaaagtttc tcctctcaca tattcaaattg 180
cttaagtctt tttacatgca ctatccatta ta 212

<210> 12652
<211> 193
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12652

agcttagccc atctgctatc tattgaattc ataacatagc attntttccc cttaaaatgc 60
acagatttca tcattaaatc caatggaaat gttctagaga tagcgtaac cataaaataa 120
gatttatatt caaaaatcac tacaaaataa ccattaaatg gggaactata caagcttttg 180
aaaatgattt atg 193

<210> 12653
<211> 371
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12653

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 agaagaatgt ggcatttacc tgcggtgaaa aacaagagca agcatctgct ttgctcanag 120
 aaaagcttac taaggcacct gttctagctc ttccctgactt ttctaaaact tttgagctag 180
 aatgtgatgc ctctggagtg ggagttggag ctgttttgtt gcaaggtggg caccctattg 240
 cttatttttag tgaacaactt catggtgcca cccttaacta cccacctat gataaagagc 300
 tctatgcctt aataagagca ctccgaactc gcgaacatta ccttgtttcc aaggaattag 360
 ccattcatag t 371

<210> 12654
 <211> 572
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12654

ccaacgcgct cctncnctac cgcaagcccn gactaccaac gcatgtgttg aaattnnnta 60
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 tegactgcag catgcagctt gtttactttt tttttttcat aggcatacac ttggggagcc 180
 tttcttttctt ctttaacact gcttactacc gatgtaagga acttcttcga aagatgatcc 240
 acccgtgatc acgtcatcag aaaatgtacc ttccagaatc agcatcgacg aatcccttgc 300
 ttcattgcgg aaatagatct cttaatcgct taggagtatt cttctctctt accttaatgc 360
 aaaagcgcac cataactcaa caacggaaga attaattcta gacttgaaag agaaatgact 420
 acacaccacg cttgcatcgc aaacgatgaa ctaaacgaca ttatcacctt accttccact 480
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 aatgactact gggtagaac acacgcatat cc 572

<210> 12655
 <211> 653
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12655

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gntcanctat cgaattctac acnananaan ngaaacnnnn nnaagagagc ancttgatatt 120
 cgatggcatt cgcatatang cgacactata caatactcat actcgacaca acaaggtcta 180
 acatactcat tctcacacta agctgtgttt attgggttag aattcgtctt gtgcacggtt 240
 atatgcagac actctattat gtaggcagca taatgcttgg ccttaactca cactctctct 300
 tattgctata tctgtagaac tacactctgg gatccctgat cattaaatnc ttatctatga 360
 gcctatggcc catcatcgta cagatgctac atccttcttg gccctctatt attcgtatat 420
 aacatagttg cgggtgtatc aattttctag gtttattaga acgttatatc gctagctctc 480
 ttcgataata gaaagataat atgattctct ggagctgcct ctctgatgcg taagatccat 540
 actcaatgtc gcacactata aaggatgttc tggacgttat aacccatcgt ctcgaagata 600
 ttaattaaca ctcaattgcg atctctccac ctggttgctc atgctatcat ccg 653

<210> 12656
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 12656
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 cccatcttta atggagtggg taccactact ggaaaacccg catgcaaadc tttatagagg 120
 caatagattt aaatatttgg gaagccatag aacaaggacc ttatgttccc tctataatgg 180
 ccggaagtgc aacaatatga aaacctatag cagattggac tgaggaagaa agaagattag 240
 tacaatataa tttacaggcc aataatatta ttacatctgc cctatgaata gatgaatact 300
 ttagggtttc taattgtaaa agtgctaaag atatgtggga tacactacaa gtaacacatg 360
 aatgcacaac agatgttaac agatctatga taaacactct aactcgcgaa tatgaactct 420
 ttacgatgaa ataaatg 437

<210> 12657
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12657

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agccaagtta tcccttgctg tctatactac aaccatttgt gatagctgcc aatgacgcca 120
 ttgctacttc ccctaagctc cttatctttt ctttacactc tatttcacgc tctctggatt 180
 ctctaaagta tcttcacatt agctctattg aaacctcgca caatgaaagg cgcaatgatt 240
 tcttccgacg gtgcacctct cattgagtaa cctaactgtc ttatggccag cacatgtata 300
 taattaatac aagccctcat gcctatcaaa gggatattgg ggaatcctta catgagcata 360
 acactactgt cttctcttct ttcac 385

<210> 12658
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 12658

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 tataattaat attctaattgt taatacaata ttttatttta gataaacaaa aataatgtat 120
 gatattaaca ttcgaaagca tacacaatat tcagacacaaa atacaatcaa cttattaaag 180
 gagaatttca tggatgattc aatctaataa actatgtgaa ctaaaaatta ttaatgtgtt 240
 ctgtatgtaa taattaatct atatataata taattaaatt atatgatatg ggttgagttg 300
 agtctagt 308

<210> 12659
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 12659

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 ggaaagtgag aaattgaatc cattccacaa ggcataatcc agttgtctgc tgttatttct 120
 ccggaggaaa aagagaacat tgtaatctta taacatactt atagcgcttg gtacttacgg 180
 atgttaatta agactgaatg atcatttcat gatacatata atacctacca cgatattaat 240
 aatgatacag ctcttcaatt tcatagataa cataaactca ttgaaacaaa atatacgata 300
 cataactgac tatacaacaa tatgactacc cttctgccga tattggcaca ctttcttact 360
 ttgtctt 367

<210> 12660
 <211> 158
 <212> DNA
 <213> Glycine max

<400> 12660

acaggaagat gacatgcctt gccaaagaca acccgatatg gtgacatccc tatgggtgcc 60
 ttatgggcag tcctatgcgc gcatagagca tcctctagcc tggcgctcca atcctttctg 120
 ttaggctaca ctatcttctg caggaccctt ttatctcc 158

<210> 12661
 <211> 299
 <212> DNA
 <213> Glycine max

<400> 12661

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 caggcgagct cctggcagtc aacagataaa aggaacaaag accacaaagc aaggaggctt 120
 gtgtgggtggc tggccagctg tgaactttgt gtgatatatt gattatggcc tctggtaatc 180
 gattaccaag ggtgggtaat cgattacaag gcttaaaaat gaagacagga ggctaagatg 240
 gtctctggta atcgattacc aagagggtga atcgattacc aggcttgaaa acgagatca 299

<210> 12662
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12662

ngctctataa attctttctc acttgatata ctccatggat gaacagcagg gacttttgcc 60
 gaataaagag tgggtgaatt tgcaggagga ttatgcttgt agatcattgt atcaagaacg 120
 gggtcaaaat tctgaggaga atctatggag acaācagaaca taggaattgc aaccttctga 180
 tggatttcta cgtcgccac aaggttaaca agctcaacaa aatcactgat aaggcgctga 240
 ggaacataga acacctcaga actgcatatt atgagggttt tatcggtgtc gcttgtttct 300
 ttgtaactga ctcgaaagtg cgctggcatc gtgctaacaa ccttctgtac cattcttgct 360

tggtgtgaaa cccatctgag tctcaccat ttgtaatata gaagaccgag actcngatac 420
ctgaatccca gtaa 434

<210> 12663
<211> 310
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12663

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ttgagtgttg agaggtcnga ttntgaatag gtggagattc taccttaata ttagcttgag 120
caagtcta ataatgttat atacttgatg aagatgagag ttaccccac aattacccaa 180
ttttcattgt cactgtttaa accttgaaaa ttcactatat ttggcggggt atggatacct 240
ataattcgct ctaccttggt ttggagtttg attatggctt gaacatgatt tatacacggt 300
ttaggacctg 310

<210> 12664
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12664

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gcgactggtc ctttcttcc ctctgcaact tgagttcact attgctaccc catagagctc 120
cgcgaaattt gttccggcca tactcttctt tgcgagccct cttggtctct tgttcaaggg 180
ctcttgcggt aattgcattc tcttcccgta acccggcaca ctcttccga acgtgtgtag 240
cagccaactt gaacttctcc ttggcgagtt ttgccttcc taactcgctc ttgagagctn 300
ggacttcttc gtcctcttcc ggtgcttcat aattctcttc gctgacgact ttttaacttg 360
cgagccaatc taaacctcgt atgcgaactt tcagccattc gtggtacca ccaatgatgc 420
cattacgaat gcctctaagc tcttgatc 448

<210> 12665
<211> 450
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12665

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tctccncta tttgatgatg acaatccctg aaatcaagac aagctatata caagatgata 120
gcacgttcac acaaccctta ctctccctat cttttggcat gtatgcataa ctgtacttaa 180
tgataaattt ctaatagata attgatttct aacccaagtt ctctctctca gttctctctc 240
cctctggcaa catcaciaag aactaacgca catatatcta tatccaaaca gagccaacaa 300
taaaccacaa taaactcata cattgtcata accaaccaaa tcacagccaa gaattataac 360
ataagtgcac gactacgata actaacgcct aagaagccaa atacacggcg ataaaccaaa 420
gtactactaa tacttaatta ctaataatac 450

<210> 12666

<211> 511

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12666

ccctccgct cgacgtcaac ctattcaaca aatcacacgt ggaacgaact catnagggnt 60
cncnaagcgg ggctggtgtg actccatgac aaacnaaang acgcagaccc atgatcaacg 120
aagctaacag cataataaat accatttata tactcgaacc gtccacgagg agcggatgag 180
ctaggaacga caacgcgctc ggtaagcagg aacattacct cacgcatgtg cccaccaata 240
ggctggaaga cacggagaag agaagaaaca gggacaacgc ggacagccat gcgcgaaagc 300
accactagga agcaacaaa aaaatgcgcg aagcacgcgt ggaaaaacca cgcgatgagt 360
ggcgaggacc atagcaaaac ggagtattaa cagggagacg accaaacaag actaacggaa 420
aaccagcgcg aaacgggagc gaacgacgcg aacagccggg aaacgaaccg agcaacaccc 480
aggcaataca cggaacaat cgggcgggac c 511

<210> 12667

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 12667

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gatcaatata ggtgaataat attgttttgc cgaggtgggc taatgttctc ctggctgaat 120
aaatgagaac atgccatttt cgcccgaaac gaaacatcgg ttgagctcgc acgataaaac 180
ctagccgacc tacattgtaa gttgtttatg caacaccgaa acaagaaaac ttcccctgcc 240
gtaagaaaaa taattatggg ccagccagcg tttttttaa ataaataatt gcgcagtgtc 300
ggctgaaaaa tatcagtccg ggccatttca cgaccgatgt cggctattga gtcttctatt 360
caatccctga atgataatgc atgatgtcga ttangaaatg gttgatcggc gtcacccggt 420
gatgcttctt ttttagacct cgatcgggtca 450
```

<210> 12668
<211> 474
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12668

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agcttgcttg cggatcttta tggaggatgg atctttgagc ttcaatgtgg tccttcaatg 60
gtgatttttc accatggaga tgcagcggaa ggcaaaggag aataggagag gggaggcacc 120
atccactatg gaataagcca aggaagaagg agcttcacca ccaagaattg ccttgataa 180
gaagcttgaa gaggatgctn taatggagga aaagatagag agaagggggg agcacgaaat 240
tgaaggaata aaagaggag agaatggaa ctttgaagtg tgtctcataa gactctcatt 300
catcanagtt acaacaagtg ttacacatgc ttctatttat agactangta gctttcttga 360
gaagctttct tgagagaact tccttgagaa gcttctntga gaanacttcc ttgagaagct 420
agagcttagc tacacacacn cctctcataa ctaagctcac ctccttgaga agca 474
```

<210> 12669
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12669

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cagatttagt aatgaccac taacctagaa taaaataact tattgccatt aacctangga 60
```

attaanacaa actaaatggc tgagtgtaac tganattgtt ggcaacaaaa agtcaccctc 120
 aacagccaac aagtcagcca ccatttggtc tcccaaaagg ctgatgccta ggttgccaat 180
 tggggccctta ttacaacttg aactaaagcc cttttagttg attaacccaa aacatattat 240
 tggtcagcca actttacaag gattggggcca ttatttagac aaactaaaca ctctagacat 300
 gaaataaagt ggtgtcattt agtcctccat ttgcgccatg atacaactca caaccttgga 360
 cttttctcct tgaaacttgt gcttggtatc aaatagtatg gacagcac 408

<210> 12670
 <211> 331
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12670

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 aaactaccct cacctatcta tatctctctc ttagctcctt gcagagttgt tctaagatat 120
 cttaggttca cgtccgttca ttcaaagca gaactctata tagaagcaaa aactttgatg 180
 ttntggtgat gccaaaggat catgcgcttc ttaagtttaa ttcgaaggat catgcgcttc 240
 tcaagtttaa ttcaagagga tcatgcgctt ctcaaggtta attcaagaca agaatccaag 300
 aaattccaga tatatgatca agataatctc t 331

<210> 12671
 <211> 626
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12671

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 cannnncanc aacaaannnt acagtggaat tganttcatt gccctgcgac acgcacacta 120
 ctactctga cctacacacg tngataatgg aatcctgagt gcctggatga catcgattca 180
 tcgtctgttg ggtcttatat gaaatggtgg cacagatgat gatgcgctac gaatgattga 240
 ataataacta ttttgacag aatgtaatgc atgaatatac tgccagtcag acagaacaca 300
 ctctgttgat aattgtagc cggacacccc aatcttctga acacacggtg tttgcaccct 360

tcttggacga gcacacatag cagataagcc atcgccctct ttactgcaa tgagcaaaga 420
ccaccctgca tatgataacc caccctagac ccaaacacaa tatatcaatc cttgatcgga 480
accctcaaac atcacaatth naaccttcga cctgtatgca cagagttacc aagtgcatac 540
tttacccttc agatgtacac aatthttcttc ggacgaacaa ccaagttcgc atgcattatg 600
ctcaacctth gacaagcatg aatccc 626

<210> 12672
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12672

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agthttcttcg agccacactt ccaagagcag tgtanggggt tctgtatgtt cgagcgaggg 120
gtttccggca gtattgaaaa caatgtggga caatgtgggt gtcgagggag cggthttctgg 180
cagatttcac gcgggaggag aaagagaaca gcgactgcaa tgtthttcgag cgcacgggtt 240
gtgaaatgcc aatgtthntaa cttataaaca taacaacatc nggtthtttaa ggataaccga 300
tgttaactaa atataagtta acatcggtth ggaaatcata taggttatat cggthnctta 360
aanatcgata ttaagatcaa thccttaaca tcggtthtca acatncgatt tgagagaacc 420
gatgtthtact ctatcaagtt aacatcggtt ctgccccaac cgatgtatca tat 473

<210> 12673
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12673

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ctatggatct ggctthttcc tcagcagcag acacaacttc taatttagac thtgctctca 120
aaatcttggga atctccattt tgaactattg agtctagtht cctthccttc thcttcaacc 180
tatctgtctc aacagtgaca tgcttcaact aatthtatgat gacatccaaa gaggccataa 240
actagaaacc thctthtctta accaaagcta atthtttctt agctggcttc aatthttctg 300

ttatagttng gaacactata gagtcttctg attcctc

337

<210> 12674
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12674

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acgcatttcg tccttgaggg ttgtgtaccc tatgcgttgg atcattccca atccatagct 120
tatcccttcc gattcgtgcc ttgagtcgaa ccttgccctca tgatatctat gtctaatacta 180
attatctcta gagggtctaaa cgcaccataa aatcgtgata tacacaatta atcacacctc 240
gacaatcttg agatatggga gaatatntng aaatgtcata atgcattgac tcatgaatat 300
aagagaggat acgcatagtc aatgatgata aatagacatc tctctgacct aagaagacat 360
gctgagcaat acaa 374

<210> 12675
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12675

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ttttacatga aagatcacca tgttcttcca taccagaggc gcaaggagga gcaagaagtg 120
tgagccatgt angtgtgtgt tggtttagat gatggaaata gagaagatgg aaataaaaga 180
gaattntttt aattaaaata gagtgtaaac agtatgggtc ccacaaaaaa ggtacaaagt 240
ttcacctcaa tattatttat ctccacctac ccgtagtgat ggtagtgtaa cagagcagga 300
ggtaggagtaa caattgactg gatataataa ttgcacaaat taacttatgg caaagtttgt 360
canagaattc atttcttatg gtaagtagat ataaacaaac attataatca gatntcatat 420
aatttcaatg tttcaagagt attngttagt tgggtgaagt tgaaaaaatg aactg 475

<210> 12676
<211> 456

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12676

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 ggcttcaact cttgcactcc ttcccatgtg tatttcatct ttattgcta gctgctgtaa 120
 tatactgggtt tgaatttgaa taaggaanaa gagaaatata aggatatata gaacatgcat 180
 atcattgccca aaagccaaca cagcaatgca tatatatagg aaattaataa tactcgatca 240
 gattatttct aggttaaaaa agcttgcatt tcgttttagt ntactatata taaactaagg 300
 acaaaaactta tagtgacgca tctcaagaga attaatttgt cttattcttc aataaaaagt 360
 agagtnttat ggcgatttac atattttctc gttgagttat atggngatct aaatatattc 420
 tcgtcgagta atgtaataag ttatatcatt attatt 456

<210> 12677
 <211> 658
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12677

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 cctacgctct anacgnanan tnancaanac agcgtgggtt tgatttgata gcatttcata 120
 agcgcactat aaaaactcca gcttgactac cgagttgatc caactgtcag ctaagcatcc 180
 acctttttct agtccacaca aggccaaata atgtcgatat catccagctg ttagccacaa 240
 cactaaagat cgcattaccc ttaacgataa aatagaaaag tcgatccaac aagggtactt 300
 gcagacgttt gtcacagacc tatcacgtga taggaagtga gatagaagcc aagaatgtat 360
 gaagagtcgc gaaacaatag aaacactttt gtcacgataa gaatcccca cccgaaactc 420
 gacttccagc gataataaat gcactaaaca aatgctgtgc gaggggagga cagtgcact 480
 cgacacacac aggctatatc tgtagcttta tgtccggcga cacatgcct acacgaaacg 540
 aatgtcacia cgagcatatc gcctatctcc tgtaccgacg acgtatctga cgcgaaatcaa 600
 cgaggcctca atgatctaac gtgaaccacg actaaggctc taactctaata catgcacg 658

<210> 12678
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12678

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 aacaatgtaa tctatccatg acccacaggc acaaagaggt ggttgagcat tctntcgtga 120
 caatataata gacgataagt gaagtgtgca caactattta cattaacaag aatctatggg 180
 gataatagta tacgccttac atcgaacgaa aacgtgaacc tcctgattgt ggacaagccc 240
 aacaaagcgg atcttactcc gcctctagga gatctctgag ttatagctta gccagttatg 300
 gagactcatt accatcatag tagaatcgta gtaactaatt tgcactacat actatagttt 360
 tactttctcaa atcgaggttaa cccattgaat ctaaattggg caataaattt ctccatattt 420
 tcc 423

<210> 12679
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 12679

accggtatat gtggactagg tggcgatcgg gtgatggtgc aagtcgactc tccacatcca 60
 cagatcacac ataaatccac catccgcagt tgcccacctt caactgagct catgtactcc 120
 cacgtagctc ttatcatcgt tcctctcaac accgggtccc catcaatgcc tccaagcttg 180
 cacaacatcc aggcaattca acatccaaac atcatgaact atccgaaacc aagataacag 240
 ggcagaggca gagtactctg gccaaaacac ataccaatac cacagctttc cttactcaga 300
 taccctagta acattctctg tgatccaatt cgttcaccgc tggagtggac tcacaatatt 360
 actgggggtc cctagtacat aagtctacat tt 392

<210> 12680
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12680

aggtagtctt acctcacana atatatatat atatatatat atatatatat atatatatat 60
 atatatatat atatatatat atatatatat atatatatat atgttttaggt agaaagatac 120
 cttggatatg catgtgtgta gcacaaaaaa tttcacaaaa tatatatatg tatgtgtagg 180
 tagcaagata ctttggatat gcatgtatat agcacagata ttcacaaaa catatatatg 240
 tatgttttagg tagcaagata cctgtgacac acatgtatat agcacaatac ctacacanaaa 300
 tatacgtatg tgtaggtaga aaaataacctc atgagaaaag agagagcgag cgagacacga 360
 ttatgatcaa aataataata gagagacaaa ttatactacg atatcaaaaa tattagcggt 420
 tgtctagcta gaacacaaca tgcttgtgaa gagagatgac tttcagctg 469

<210> 12681
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12681

actctcatct caaacaagtc tataacatta atttaaactt gctcaaactg ggtntnchnag 60
 gaaaactcca ccgattcaaa atttgacccc tcaacaccca attgnncnta gaaatggctc 120
 ttgttttcac ctctgtcact catntttttc tcatttgctc tgcccaagct ntcctacnng 180
 ngctaattga cattgtaaac taggatcaac tcactttaga ctgcgngnac ggtaaaccga 240
 aatctagttt ctctaaccct cacaatctca cactgttcta cctacaacat tgtcatcctc 300
 acatttaacc cctaagttaa ctttccccgt catgcatacc agttgtctat caacaatttc 360
 agcacacaca catcac 376

<210> 12682
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12682

agcttgccac ccagctctct caggcgagct aggttgcttc ctccagaagg caccgccttt 60
 tgggaaactt cctggaaggt ccaagtgggc ctggttgcta tttgcaccct cctgtttact 120
 aaatacacc ctttccttnt ttttgctgat tcttttttcg taacgttatg gaaccttacg 180

aattacgtaa cgatactttg tttctttccg taatgtcacg aaaccttacg gattatgcaa 240
 tcatcccttc tttggcttcc ggaatgttat ggaactttac ggattgcgca ttaacacttc 300
 cttttgactt ccgagatgtc atggaacttc acagattgtg caagaatgct tcctattgac 360
 ttcangcatg tcacggaact tcacgaattg cctaacgatg ggtgccaagt acc 413

<210> 12683
 <211> 181
 <212> DNA
 <213> Glycine max

<400> 12683

tcatacaatt aatatagaac ctatatacta atatcacatc ctatcagagt cgtgtgttcc 60
 cgtgtcttct aacatgaggt tcttcatagt catccaccta ttcattctgct cccccgaaca 120
 caagttcaag atcatcacag gatccataca caacaacaca catggagtga gttatcacat 180
 t 181

<210> 12684
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12684

ctcccctagt ttgctatana tagggggaag aagtgaagaa taatagggtt tcatccccag 60
 aagtaccttt ctctctttct tcaaatagct cgggaaaatt acattcatgg agaaaaattc 120
 agccgaggcg ctctcgtaac ggttcccgag agaatacacc aataatcttg accccgtttc 180
 aagagataat ggtccgcttt cgtttctttc ggctctaaag ggggaaagcc tctaaccaaa 240
 cgtttaaatt aatttatgtg cacgcggggg gcacacattg ggtccgtggn ttatactcgg 300
 gttacatcaa tttatacccc cctttgcgcg cgttgacccc tttttatanc gtattcgcg 360
 tatatataaa aaaaataact cccacgggc gtgggagttg atcaaccata atggggagaa 420
 aagattcccg cgttgtgagc g 441

<210> 12685
 <211> 423
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12685

agctgtgtaa tgaagtatac aggctatggt tatttagtgg cattgtttat aactcgtcca 60
agagttcttc ctctttaatt acctgttata tattcttttg attctatatt ttcaagcatg 120
gaattaaatt gtatatacag gatcaatttg acactatgcg taaaacttta acacttgcatt 180
cacttaataa tttacacgaa attaactaat tccaccattg attaagttaa aacaattcca 240
tacaaaacaa aaactaattg atacttaate aatatgctnt attttgatag ataatatatt 300
atgtctttta tgtgaaataa gtaaaatatt tagttagatg aaatttcagg aatatgttta 360
atztatgtga tatttgatat acatgataga gaaagtaaatt attatattaa ttcgcttaatt 420
ctt 423

<210> 12686

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12686

agcttgtctc agcgtttatg caagacagag accaacaatgt tagccatcat cagcaattac 60
caagaagaat taaatctagc catgaccac aagcacaag tggcggacga ctatgcccga 120
gtgtacacgg aaaaggaggc taggggaagg gtgatcgact cgttacatca agaggcatca 180
atgtggataa acctatttgc tcttactttg aatgagagcc aagaacttcc ccgattgctg 240
gccaaaggcca aagcaatggc ggacacctac tccgccncg aggagatcca cagacttctc 300
agctattgtc agcatatgat agacttaatg acccatataa ttaggaaccg ctaggaagtt 360
tgtattgtca ctcagatctt gactagttat aactntctga at 402

<210> 12687

<211> 510

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12687

ngcggactat accttcgacc aaacacggtc gtgtttctgt ctcggcccg atttaaggcg 60

ggctgcagca cgggtccgc ttccctaacc gtactggagg cggttgccgt ggccttatcc 120
 tctatagtn tctggagttt taacatgacc tccgagatgg aagccatttg atctttttaa 180
 gccaatagat cggccttcat ctgttcctgc acacctctt catcatccat tnttctggat 240
 cgagtgttat aggggtgcct tgggtgtttc ttagttatga tgaaattcct aaagagataa 300
 acaatgggga gtatgccacc aaaacatgaa tatgcaaag aatgattgga acacttggat 360
 ccaccctaag ggttnttttag ataacatgat gagttcagaa cttctcattn tatagaaaga 420
 acanagctnt catctagcca agattataca aagggtgttat aagagaacct aacggnttct 480
 aattatgtgg gccatcaaat ctatcatgtg 510

<210> 12688
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12688

agcttgccat ccctctctcc caggcgagct atgttgcttt ctccagaagg caccgccttc 60
 tggagaactt cctggaaggc ccaagtgggc ctggttgcta tttgcacccc cttttttact 120
 aaatacacct gttgcctttn ttgctgattc tttttcccta acgttacgaa actttatgaa 180
 tttcgtaacg atacttgntt tctttctgta atgttacgaa accttacgga tcacgtaatc 240
 atccctcttt ttggctttcg ggatgttatg gaactataca gattgggctc tatacacttc 300
 ttttgacttc tggcatgtct ctggaacttc acgggtcgtg cacaatgcta ttttaaactt 360
 cctgatgtca cggaactcat ga 382

<210> 12689
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12689

ggttacaact agtattcttt gtcataccaa gtcactaata gctctaatac aaataaaaag 60
 attcatttgt ttgtttacac attgaccaac tntcaatcgt cttataaaca gatatacaat 120
 cccaacacgt agtcttttct ctcaagatat tcaaagtgtt ttcaagctat tcaaaacttt 180

ataagcattt atagacaact tatttacaaa aagaaattga atttgagcgt ttcaattggt 240
tcttcatgtc ttcaaagctt ttggtattta tagaccttct tcaacaaatg tttgttgtct 300
ctaaataaca agatttcttt tctttatctt gcggtgaag aatatggcca ttggagcatt 360
taatgtttgc attanataca catacttctt catactagaa ctcgactctt cttggatata 420
at 422

<210> 12690
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12690

agcttaattc tgagaattct ttgaaaaata agcattctag agtcttttat atgcaactag 60
ttggtaaccc gtgcatacgc acgggtcact tgtaatttat tntgtatgaa tatttattta 120
ttctataata cagtattaaa atgaaaaata gtacgaaaat aaaaaaatat gtaacattaa 180
taataattag attgtttgca taaacaaaaa aaaagcaaga ttactcattg accaaggtaa 240
tgtaataaaa caaaacaaac aacataaact taatttagtc actatcactg gtcgtccaat 300
ccttttgact tctaataata atttcccaa tttgttcatg acgcttgtag tagaatgaga 360
tttcatcacc ataagaaaaa ttactttctt taaggaatnt atatcaagg tgcacaacat 420
anntttttcc aattttaata tcaagaacga taacat 456

<210> 12691
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12691

gcttaatgca agaaaacata ctcatgacta ggaaccctaaa gtttggttnt aggattagaa 60
aagcatgaga atagggactt gtttgtaaga atttgggctg ccccatgatt ggcactntgc 120
gcctaagtaa cgtgggagat gcttttcaat ggtgtgtaga tatgtgtgtg tcatacccta 180
atttcgtccg gggaccttng cttgatgaca tgcgaccttt ctttggtcct tgtgaggtgc 240
ttggcatcca tcattgggca atttgtgaaa ttccaggaca tgccgaataa ccaaaaaaaaa 300

tatattgatg cacaatccgt aagtttccgt gacacaccgg atatcaaag gaagcatcat 360
 tgcataatta agtgagggtc cgtaacattc tgtaagtcac aaggcggatg attatgtaat 420
 ccgcaagggt tcgtaacatt 440

<210> 12692
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 12692

agcttgggag gattgttttag ttttccggtg ttgagagaaa tgacgatatg ggctacttgg 60
 gagtacgtga gctcagttgg aggcggggcaa catgggatgg tgggtttatg cgcgatttgt 120
 ggatgtggaa aacttgggtg gcaccatcgc ccgaccgcca cctattacca catgtgatgg 180
 gtaccccata atcctacaag ctagatatga ggaagtgtac aatggtgaaa acttcttctt 240
 ttattcgttg accacagagt ggtacctgga gatatgt 277

<210> 12693
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 12693

aatggcttct caacctgtgt gtggagaatg tcatcgtcga gtctaactgc atttaggtat 60
 ccaacagcat acattaaggg gccaatgatc tctttgaatt tggctgcacc atatggatat 120
 gctgctggaa cctcttgctc tttagatctg acatcaaagt caacttcatt cgtcgtgggtg 180
 caaactcggg ggctcacgga ttagtatgat cttttggaca ctctgctgat cctcgttctt 240
 cttatctgtt catgctcgat tctttatcaa tatcccgatg ctaaataaat gagtatatat 300
 atatataaa atcacacttt taattcgaca agaagaatat tcta 344

<210> 12694
 <211> 103
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12694

agctntaatc ttttgatcct actatgtgac taatcattga tcttggactt agtcaaactt 60
aaagttcatc tctcgtttgt aatagtgtat tatgttgga tga 103

<210> 12695
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12695

gatattcaag atggatgac aagatagtct gtatagtctt agaaaggga tattaatatag 60
gaagggaatt ccaattgaag tagcaaaagg tttggccaag aaaattaagt taaaaagtct 120
tttacaagaa atttactctc tggtaatcga ttaccagagg atgtaatcga ttaccagtgg 180
ccaaaactga tttacaacag ctattaaaat ttgaattcaa aatttgcct gtgtaatcga 240
ttacacatat atggtaatcg attaccagca gtttctgaac cgtttaattc aaattntaca 300
gcttgtaatc gattacacat atactgtaat cgattaccag atcagattnt cagaaaatat 360
tctcaatagt cacatctttg tatgtggttc ttgaatggct atcanaggcc tatatatatg 420
tgacttgaga ca 432

<210> 12696
<211> 465
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12696

agcttaacaa acttagaaat catgtggtca taaattccga aatatagggg gagtaaacgc 60
acattntatc tatatacaat tgtttgttgc ttgcttgaat cttgatttca ggtattgtat 120
tgtcatcatc aaaaaggggg agattgtaga tgcaaagcc tttggtgttt tgatgatgat 180
catgatgata tgatgcaatt gatgcaaatg ggcttttcaa gattaaattc aagacaatgc 240
ttcaagatta caagtcacaa catcaagatg atcactagta aattaggaag ggaattccta 300
attgaattag caaaagggtt ggccaagtaa ttntaattaa naagtgtttt tcatagggtt 360
tactctctgg taatcgatta ccagaggatg taatcgatta ccagtgtgca aatattattt 420
ataacagcta ctganatttg aattcgaaaa ttagactgt gtaat 465

<210> 12697
 <211> 305
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12697

aatctcttcc acacncaagt ttggaccaat tagtaaaagg gtgacaaaag agttaactac 60
 aattccaatt cttcattacc agtcaaacaa actattgttt tcttcgatag accaaaatca 120
 ttntatatgt tggatacaac tgttgggtcac aaaagctgat tctctccaca agatgaacaa 180
 caataaggaa aacatactat ctcaccaacc cactaggaga gaaccaatca ttgtcaatca 240
 agttgctagg gatgcatcat gctctattta ccttccacta tagacatata tacatgcatg 300
 ctaat 305

<210> 12698
 <211> 353
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12698

agcttaagct gttatgtgtt tacttatgaa tgatataaat aattgaatat aatgtctaac 60
 atgcgatatg agccttttgg gctttgagca aaggctgagc caccttacct tgtgctaaaa 120
 tttatcttgt tttattgtga ataattggaga tataatgtgt caaattctct gtctgaaca 180
 cttgggtcaag agtctctaata accatgtcag caaccttcgc tattgaaaag tcaagttgtt 240
 agttaaaact catgaatggc tcgagctgaa ttaattatat atgatattta ttatattctt 300
 anaaattata attaaaccta attgtataat tatagtttaa tataactaaa tta 353

<210> 12699
 <211> 505
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12699

taatactatt gtggcatgaa ctctgatatt tgattctgtg tctcttgact gtcatttana 60
 tctgaggcat tagactctc tctcatacca ttattcatca nnaccatttg attcttgtac 120

aatgttatct gtttggcaag tgtaccaaat gtccaagtaa taaagtctcg gaagcccag 180
 tgtcgaattc cattggaatt ntgtgttgta cttatcttgg atacttttca atttataagt 240
 ggaaaataat aaaagagagg ggtagaagag agaataggaa caataatagg aaattataag 300
 taatggaaag caaatgaatt anaagcagag taatcaaaaa gggaattcaa tggaatgtaa 360
 gtgttangac ctaacatgcc ctatntgcct aggatgtatg attntatgaa ttttctttac 420
 caattcaagt gaatttatcc taccacatc tattcattta cttgtccctg atgcctcacg 480
 atgaacangc ctatttatnt atcta 505

<210> 12700
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12700

agcttgcttc tacaatctcc ccatntgat gatgtcaact tctgaaatca agaaacacac 60
 acacacacac acacacacac acactttttc ctagtcgatc acacacttct acaatctccc 120
 cattntgatg atgtcaagaa acgcattcat acaacattca tggaaaaata taaaccaa 180
 catgaagcaa gaaccatgaa tataaaaacc acatagtcaa ataacataat taatatttgt 240
 tcaaacatat catgcaaata aagaaatagt aaattgttca aatgtcataa taatatagat 300
 tatntggata agtcactaac atctatcagt cctaattctc ttctaattgt gtaaaaggta 360
 tctttactta gtggttnttt aaaatgtctg caagttgaat tttagtatct acaaattcta 420
 aaacaacatc acctntaga acatgatgtc taat 454

<210> 12701
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12701

ngagctcact ggtgctgcn ctacanagcc nctcggaact tgtttcggtc tcatgcttcc 60
 tttcangccc tctntgtttc ctgttccaat gcttcggctg tggccacatt gacgtctctc 120
 aactcattgc attcttnttg gaccttgatg gccattgtct tgaacctttc cttgactgct 180

tgtgcctatt caagtttggc attcaaggct tgcacctctt cactctcctt aagggtttca 240
gcctcttcct cacttgaaac ctttagcttt gggagccaat ctaactcttg catccgagcc 300
ttcagccact tgtgatagcc accgacgac tcattgctgc ttccccctaag ctcattatcc 360
tttctttgca ccattgctcca tgcctttcga accctttgaa atatccttgc attgngatca 420
ct 422

<210> 12702
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12702

agctnttaac tgtatttgca gcgttccaat tgtntnttaa atggtgtaat cgattacaat 60
atattggtaa tcgattacta gagtatctaa atgttgaaat tcaaattcaa ttgtgaagag 120
tcacatcttt tcataaaatg ctttgtgtaa tcgattacat ggttttggtg atcgattacc 180
agtgacaagt tttgaataaa aatcaaaaga tgtaactctt ccaatgggtt tctcaagatt 240
ttctcaaggt tataactctt ccaatgtttt cttgaccaga catgaagagt ctataaaagc 300
aagaccttga cttgcattnt aagtacttga tataactttt catatatact tttaaacct 360
ttgaatctct ntgaaccatc atttgaactt cttcttcttc ttcttccttt gtcanaagct 420
ntctgagttt tctgatttcc aaaccttggt atttcac 457

<210> 12703
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12703

acattgaaac agttaaactt attaggattc ctgaaactcg ntatgaccaa acacggngag 60
gtaaaggtag ataaggatag aatgttgtca caatgactca acaggagggtc tcacaagcac 120
atattatata ttaaacaaca caacatgata ttttccgtac atagaaaccc acagacaagt 180
tcttagagtt acacacccaa aatgaacat gatgagggtg ttgcaagagc acaataaaac 240
tttcattaaa tnggttagag aaacaatatt agcttatgac aatgcttcga aaactttaag 300

attgttagtt gttgcgccaa atctcaatgt ctctacttgg aagggatatg atatcaacaa 360
 ttattccttc tacacanaat cacaagatga taaaattgtc gtgcggaaca gcgtgggtcag 420
 tggatcatgct taattttatc 440

<210> 12704
 <211> 454
 <212> DNA
 <213> Glycine max

<400> 12704

gcttgtgctt gacttgccctg tgtgggagtt ttacatatat gagaaagggg caacgcgtta 60
 tgggttgaana taagaatttg ggtcttaaaa aaaatataaa tttattaaat ctggagtaca 120
 gttaaacaag ttaaagtttt aaaaaatagg tgaggtggac caatcgggaa gaatgtatta 180
 gcggaatcta atgatattta ctctattat attctttctt ttggcttgac tctgctaatt 240
 attaagtttc ttttaaagat gtcaccggat tgtttgatgg gagagaagag aaaggtgtaa 300
 aactcacaaa aatttgaaaa tttcttcac tttcttcct atttgatctc aaccaaagac 360
 tctgatctaa accagatcaa ggccacctga tccacacatc ctctagataa gggaaaaaacg 420
 aaagagaaga gaaaatgaga aatgcatgtg atg 454

<210> 12705
 <211> 489
 <212> DNA
 <213> Glycine max

<400> 12705

tagtaacgtg aataagaaaa taataagtgg atgccaacat attaattgtt catttgaaat 60
 cttcatcaca attcactgac agacctcaac taataggaat atataaatat gaataatctc 120
 tttattatta attaataggc catagacaag cgcctaactg gccttgccctt aacaagcctg 180
 gtgtctttta cagtaaatat ataactccta ttttatacaa caacaagggtt ttaaactacc 240
 caaacttttc agaataataa tacatgtata taaagaaaac taccagact ttgcaagata 300
 taaacacatg tatataaaga aactaccca cgagcaaac taataatata atcacaactt 360
 atgtattgga tgggtcacac acgaaccata acataacgta cacaagcaca catgcaccag 420
 gctattctta caaataatac tacacctctt cgttcggcgg cctgcattct ataattggca 480

tctcatgat

489

<210> 12706
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12706

acgctttaag tggaagaata ttctccgtat tctacgtga tattggcttc atcgtgagat 60
gtttcaataa actcatagtt ttgtctgcta ctcttctcaa tcaaagaaa tagttaagtt 120
tggtcgctta aaaaaaactc atacttttgt cttattatta attttcgtat tagaagttga 180
tataaaagta tggtggaaaa taaaataaaa tatttaaatt tgcaatgata gatagttttt 240
aacgatcaaa ttataattat atttaattaa ttatttggtc tttataattc tataatttat 300
acattctagt ttctatagtt cgaaattaat ctttctaagt tttataattt atatcttaat 360
tctctgggta gttttatagt ctaaaattga tttatctagt tcttggaatt catattctaa 420
ttctntttta gctcttatga 440

<210> 12707
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12707

attgcgaaag cccactcca tcattaggat tagtacctga catctcaaac aaacaaatca 60
aacgtaacaa gacaattata gttgttgttt gaatacctca cccactcaag tgtatcacac 120
aattatggct nttctctaatt gaaacactct tgccttttac cactctaatt ccccttgagt 180
tcttaggcaa ttcaagagat tatggccaca acaagaaca attcaccaat atgtgtaagg 240
taaggctaga gagacaagga aaagggttaac caagaaaaag gctaacaatg tttttaggca 300
caaatgaagg aaataaaatt cagaatttag gaattcaagt aacaatcctt catgcaacca 360
atatattacc tt 372

<210> 12708
<211> 463

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12708

agcttgctta tgtctttacc tattcctaag catgtatggc aacacatcac catggacttc 60
 attgaaggtc ttcctttctc ttttggtaaa caagtcattt atatagtagt agataggctt 120
 agtaaggcaa ctcatctcat ggccttatca catccttata ctggtgcgga tgtggcccaa 180
 tgcttccttg ataatgtctt taaattgcat gggtttcttg acaccattac cagtgatagg 240
 gatcctgttt ttgttagtca cttttggaag gaatntatgt cttttcaagg gattcaggta 300
 tagctttcta tagcttatca cccacaaact gatgggtcaat cagaagtggg gaatagggtgc 360
 cttgaaacat atctcagggtg catgtgtagt gactcttcaa cacagtgggc ccaaattgggtg 420
 cctcttgctg aatgggtggac aattccactt accacacatt att 463

<210> 12709
 <211> 507
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12709

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 tcttggtcga gttaaagggtg atcctgggtgc ctcatctcta acacaatcaa atcctaagat 120
 tgngtccaat aatggaaatg aaatgacaaa ggataaatat aagccatatt tgaaacacat 180
 tgtgaatggg tctagttcta ccaatgggtat agttgttggt aacgtangcc cacctaaggt 240
 taggaaaacg gttgtaacta actctaaagg aaaccttcca tagcctcaac aaggcataca 300
 cccctaatac ggagttaatt ctaaaaatat tatttagata aggtcaaata aagtcttttg 360
 taagactaat tacatggaga ttgaanagggt gtttgtccca acctctaata nggaacttct 420
 tgcccatatg atcgctcta aggagaaatg attcggtccc aagatatgag ggttcgactt 480
 atctacaccc cacgtttctc atggata 507

<210> 12710
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12710

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gccccaaagaa aaggaaaaaag gggactggga accatgctca aagcaatata aggggcanag 120
gtagagagag aataaaaaatc taacgtgccc cgggtgccaga atgcttcttg ctatgtgaag 180
gtatggggga gggtcattat acgcagcctt agccttgcat atgcaaagag actgtttccg 240
gattctaacc catgaccaac cagtcactaa ggtgcaactt taccattatg ccagggctct 300
tcctcaaagg tagagggaga ataatacagaa gaaaatcact caagtttact ccacctctaa 360
gccccaaagaa cagaggagga anaaataaac catgctcana gaagtgcang tggcaacgga 420
agattataaa aggaaacata ttttagacag taagtagata 460

<210> 12711
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12711

ntccctctnt gaacanatac ccctcagcca aatagcattc atcttgtgcc tttntccac 60
aactctcgta aatgggagaa aaatgttcat ctaaagcata caagtccta atattatcaa 120
ttcctaaaat ttaagctcct agggagcaaa acaatgtgtg tctcctagag agggcatcag 180
ctaccacatt tgtttttccc tttntgtatt tgataacata tggaaatttc tctaggtact 240
ctaccatttn tgcattgctc ttgtttaact tgctttgccc tctaattgtac ttaagtgatt 300
gatgatcact atgaatgaca aattccttgg aaacaaggta atattcccaa gtttggaggg 360
ctcttattaa ggcataaagc tctttatcat 390

<210> 12712
<211> 617
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12712

tcaccacaca acntncactt cgctnantat actctcatcg ncgntngntg antgtgcgac 60

gcataggaca tataacgtcc ccacgctgag caactgggtg tgtcgacgct acgaacggcg 120
 aacngngctc ggacgcggcg atcggtatag atgactgcag gctgccagcc tggaattact 180
 cttatttata tcctctccat gctcaacaat acccctcca tagtgagcaa caccatcacc 240
 atcataccgt caattagcac tattctcggg gaaggtagtc ctataaatcg ttgagcaggc 300
 aagaatgggg acaggggctg atcgcagaag aaccgggtaa tcaactggagg aactaccacc 360
 gctgctacag gtagaaantg ggatcattct gctaaaccag gctaatagaa ggataatata 420
 acttcgccga aggtgacaat acgntcccta tgcttgggcg atacgggaca tcccgacaca 480
 gctgatgggt agacataggg gcgctaccaa tcaaaagaat tgaggctaca acacgcacgc 540
 cgatgagacg acgagcagca tgtctgtgac tccttacatt catcattgct acggcttaat 600
 tccgcatcgg acaggcc 617

<210> 12713
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12713

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 gctacaccaa gagatgacag tgcattccct cttaatacga tgttcatcat taggcattca 120
 ggtatgaata atcctccacg tgagaaagga ctaagaacgg ggaagggcag cactccgaat 180
 cttggaaccc cgtgaagcat tatatcgaat gagagcacat tatattcatt tacaacgagt 240
 ggtaggatca acctgatcca aactcagatt ccagatttca aaactaagcc aagattntca 300
 agctntagaa ggctattctc agctcaaggc ttcaccatac atatataggc tgggctatat 360
 tcaactcaat angcctttca aatatgctcg atacttgatt gaagcatcat ttgaagatgc 420
 aactaataat ttatatacaa gtagaattta tataaacatg tta 463

<210> 12714
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12714

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 tccctagtct aaactccaac ttttccattt gtttacggat gataaggtga tgctactttg 120
 tgtcaaacat catagtgttg aaagacctt gagaattgag caatacaaaa gtgtgtacct 180
 tcatcactaa tcaagagtct aggcaatcaa aacctaacia aaatgtttct ctttaagata 240
 ttaatcatca tctttacatc attggttgga ctagaaattt cttccacca ctttaagaca 300
 tagtccacta ctaccaagat atatctgttg ccacgtgagg atggtaaggg gaccaaaaaa 360
 tcaattccct aacaatcaaa caattctacc tctgcatgt tctgtaatgg catttcatgt 420
 cgtctagata tggtgccgat tcggtgacca atattgcatg atc 463

<210> 12715
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12715

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 tttcgttcaa cctcttgggt aattcagaat cacttanaac tagagaaaaa aattggtttc 120
 gtgaagaaca tccaagccga gggtctcttg taacgtttcc gtgggtgatt tcacgaagac 180
 tctcaaccgt tcttcgacgt tcttcattcg ttcttcgtca ttcttcggtc ttgaactggt 240
 aagttcccta natcgaactn ttcaattcat tntatgtacc cttagtggtc ctcatattgt 300
 ttcacgtgct tttatttacg tttcatttac ttttcgtacc cccttttgac gtgctttagt 360
 catttgctta agttattttc tcgcctaate aagaaataaa atanatgtca acctatcatt 420
 tgaattgtaa taccggttag tttctgtaaa ataaaatcca accgttcggt cg 472

<210> 12716
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12716

agctntagct ntagttatac attatggtaa ttaggggtat gcaaaaatta attcagtaaa 60
 aaaacagaac tagattcatt tcaaattggt ttaacggta gattttatat ccaagtaac 120

aaattgattc aaaatcgaat tagtttttaa aaacaaaact ggttttagaga taaactagat 180
 tatgtattgg aggtgattcc agtattttgtg gcaaagcagg gagaaacatg tccttccaat 240
 acattattag tgattatggt gctcataata tgttgcgcta gctaaatttg agggatatat 300
 aacaaccttt gcttcaacca ttntgaacaa gccacggaaa cgatgtccaa gtccttggag 360
 agtttanagt tgaacgttga gtgagtcctgc aaccattgct agctnttaat aatgcacag 419

<210> 12717
 <211> 491
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12717

tcctctgagg caactccggt ataaactgga taaaccctnt cttcaacaca cctaattgaa 60
 ccgtgcacaa tgccatatca cctcaaaca cctgactccc tgcagtcacc tgcactccat 120
 cgccactata cctaatacata tgcacagtct tctcatataa aatcggcaca ttctctgaca 180
 aagcctgaac cagcttccca tttccccccag gcaaaaagca atggtctccc cccatatcat 240
 atggatcatc ctggtcccaa aacgcaagcg aaagatttga caacaacccc gcattcgcac 300
 actccaaatt tgcgagatgc caattaaaca aattcatttc ctcactactc actgcgtcct 360
 tataaacctg actgaatgtc tncagcgcag ccncgagcga cacantccac cgaaacctcc 420
 ncatcagctg cctcagccta ctcgccttat caagcaaccg attaaacgca gactccacct 480
 tcacatccat a 491

<210> 12718
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12718

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 gctactagcg aagtcacac agttattgtg ctgtaaatgc aatgtgtgaa gcttggttag 120
 taatgaatat ctaaacaatt tttatttgca aacttaattg gcatctaaac cagagtagca 180
 tcaaccaga ttaagaaact cagggccttt aagattgtga atcttttagt gcagaacagc 240

attcaaaatt caaataacaag acagaaataa ggattcctat atgttccatc aaccaacctg 300
aatttcaaaa nagtagtcaa gggatctagc tgaattgtta accatctttg tttagcttgg 360
atggcatctc anaattcaag tagtttgtgg taccaaagag aggtttgtca gacagacatg 420
atgtcttatt agaagtctta gcataagttg tcatgaaaaa ggtatacatg atg 473

<210> 12719
<211> 487
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12719

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tatagcgtct tggctcttga tgtgatgtga tattgcgtgc tcattgcttc ttaactttct 120
tttcgagtta taaatagaag ttagtaaatt gaattgggtg tatccatatac aaatcctctc 180
tatttttgtt cttctgttta aaaggatgaa tatctataat aacaatcttt gctggttcta 240
ctcccatact ntatcttcct ttnttctctt ccttattctt ccttctcttt ctacaaccaa 300
cctgactgca ctgttttgct attntcana aactcactaa cactcctttc anactagaaa 360
cttganaaaa tggcaccgat tgggtgaagt ggcattgngt cgcgtgcaac accatctcag 420
gtcatgtgat tggctctgat gtngacattt ctccacaatc ttttggtgat atttctctta 480
taatctc 487

<210> 12720
<211> 426
<212> DNA
<213> Glycine max
<400> 12720

agcttctaca ttcaatttcg agcttttcga tatattacgg gactcaatcg gacatccgag 60
taaaaagtta ttgtagtttg aatttgctca gggcttcggt attccatttc gagcgtctcg 120
atatattacg ggactcaatc ggacatcaga gtaaaaagtt attgttgttt gaatttgctc 180
agagcttcgg tattccattt cgagcatctc gatataattac gggactcaat cagacatccg 240
agtaaaaagt tattgtagtt tcaatttgct cagggcttcg gtattccatt tcgagcgtct 300
cgatgtatta cgggactcaa tcagacatcc gagtaaaaag ttattgtcgt ttgaatttgc 360

tcagagcttc tacattcaat ttcgagcttt tcgatatatt acgggactca atcagacatt 420
cgagta 426

<210> 12721
<211> 480
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12721

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atcgagacgc tcgaaatgga ataccgaagc tctgagcaaa ttcaaacgac aataactntn 120
tactcggatg tctgattgag tcccgtataa tatcgagacg ctcgaaattg aataccgaag 180
ctctgagcaa attcaaacga caataaactt ttactcggat gtctgattga gtcccgtaat 240
atatcgagac gctcgaaatt gaataccgaa gcgctgagca aattcaaacg acaataactt 300
tttactcgga tgtctgattg agtcccgtaa tatatcgaaa cgctcgaaat tgaatgttga 360
agctctgagc aaattcaaac gacaataact ntntactcgg atgtctgatt gagtcccgta 420
atatatcgag atgctcgaaa tggaataccg aagctctgag caaattcaaa cgacaataac 480

<210> 12722
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12722

agcttggat cactctcatc attntcctct ccaccccat cactaccccc tccatagtta 60
gcaacaccat caccatcaaa cttcaatta gcactattct tggggagttt agtcctataa 120
atctttgacc agtcaagaat gttgacaggt gctgattggt gaagaaccgt atattcattg 180
gaggaactag cactgctgct attgctagat cttgggatca ttctgcctaa actaggccta 240
gtgaagtata ttacaacttc cacaaagttg taatatactt ccctcatgct tgggctatcg 300
aggactatcc ttatacttct gatgggctag agatatggga tgctatcaag tctaaaggat 360
attgaaccta caaactagtt agtcaggatg atgacanaga tgcangcatt ntctctgcac 420
ttctttagta ttcacatcaatt gcctacaact ctaatataca 460

<210> 12723
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12723

tacacaggca gttntaaaga cataaagggga atgatatnnt gagtttgaaa tgcttgagtg 60
 cattcgaaac tctcatcaga naagaaatcc atatctatga acttaggggc aatgataaaa 120
 tgagaggaga agaggtttgt ctaccgtata cgtttttctt ccgatgagaa caatgaggag 180
 gagaaaatgg aggaaggaat tggagtatcc tgaacctcgg agtgccgttg gcttctactt 240
 gaagaacctt tgtgcttctt caatggtttc gctatttgag agacttattc aaaatttcaa 300
 tcggttgaaa tgaaagagga tgaanaaaga tngaatttgg gctctgtggg atgtgatatg 360
 gataagaaat gagtaagtta tggctganat acgaattgng aatgaggggt cgcgagagga 420
 atgagaggggt tcagaattca gaatttgaat ctgaattata agaganggat gcgttgaatc 480
 gatacaaca 489

<210> 12724
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12724

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 cttgcatggg ctaaaatagg taggacaact tattaggcat atgaagtata gattctcata 120
 ttctaagcgc caaattttgg taaccaatta ttcttgacat acgcgtactc caaatacttc 180
 tatttttgaa taaattattt ttattatta acacatcggtt aaatcatgag tatgataaat 240
 agtacttaat ctaaagntac ttgggattca tgaaagatat gtaccttatt ttgattgaac 300
 tcatttgctc ctggttatagt tagtttcttg gtaacagcca ttagctntcc atatntatca 360
 acacatggat cttntttgaa gtagtaatac atagcatcta caacatcagt taatttgata 420
 ggatatctca atgaagatcc aatatggtac a 451

<210> 12725
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12725

ctctntttctc tctntntctc tcaaccattc ttcattcttc ttcctctntt cactnttgnt 60
 cttcctttnt cttgcacana ttntgtggct cgtccactag tgatgatcat ggaagggttaa 120
 atactcaatc agtccaagga ttcattccaa gccagggtga atttgagtta tggnttagta 180
 tttcaattgt gtgaatgctc atctttntct ttaatcctaa tttcaattnt catgattata 240
 aataagttta ggattgaaaa tgaattangt tatgaattta tttcctaatt ntgaaattta 300
 atcacagggt atctggatga tattctaacc taatttgcca tctcaatgaa ttttgggatt 360
 aattcaattg aaataactct aatgacattg attgaactcc cacaatgatc attctntgca 420
 aaactgtgat aattcatttg cattga 446

<210> 12726
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12726

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 gcaagacatc atattatctg agatttatga aacaaataat aattcacgat ggtagaaaa 120
 aattcaaaag acaaaaaagg gcaaaagttg cagcaaagtg tgtcattntc ccatccccgt 180
 gaagtcaatt gcatgaggat tacttccoga gggagcaaca aagtttgtct aatacatcat 240
 gtattaccat cagtttacag cacaatcatt tttcccataa tagcattccc ttaattatct 300
 atgtagcatg tgattgtgag tatatcaaat gcatacacia gtcgagtata caggacatgg 360
 aacactccat taaccaacat agggaaacaa atacctgcag agagacatta tgttcctta 420
 tgccagtata ataatg 436

<210> 12727
 <211> 327
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12727

ggaccggcga aagcaagtcg taaatggagt ggttgagta ccaagaaaat gtctggaagc 60
ataggtgata accttgcaa gtcacgaaga atgggccccg atcatggatg tcttgcgct 120
cttgatcttc agagtgggcc tttttccaaa tgtggatggg ttggtggact gcgcaatgat 180
tgatgctttt ctgcctttt acaccacaag gaaagcccg ttgtcgctat cttatccaat 240
ctatatgaca cattcgaccg aagatgcgag aagaactgng catggatcgt ttgctataca 300
ccggccctct acgtatggct ggttcac 327

<210> 12728
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12728

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tctcgttttg gttacttttc atacccctc ttgtcgtgct taagccgtn tacttaagtc 120
atttctcgct taacttaaaa ataaaataaa tttccaccga acgtttgaat tatattatcc 180
gttaacttcg gttaaaatca attccgaccg ttcggtcgtg ccgtaaccac gttggaaatc 240
ataaagaggt aaaaaataa tataataatc ataaaatc ttttttagta aaataaagcg 300
gaaaatcaat cggacgtttt ctctntggga tttctcattc ttaattgaat tgattaataa 360
ctaaagtga actaagggt aaatcaactc gcctagtcaa gctcgtccac aataataggg 420
ctttgaagtt cgcatttcaa tttctcacta agtaaa 456

<210> 12729
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12729

ntgagccana atcctgactc accatanacc ttgaccagg gtgagaatgt ctatccttac 60
cctcggaagc ggaaagaata gaagggaat ttccaatcaa agaaaaggaa agaaggaaga 120

<210> 12734
 <211> 354
 <212> DNA
 <213> Glycine max

 <400> 12734

 agcttgccac ccttctctgc caagtgagcc agctattttg caccctctgt ttactaaata 60
 caccctcttg ctctttcttg gtgtttcttt ttccgctatg ttacgaaact ttacgcaatt 120
 cgtaacgata cttgttttct ttctgtaatg ttacagaacc ttacggatca cataatcatc 180
 cccttttttg gcttctggga tgttacggag cttacggatt gcgcactaac acttcctttt 240
 gacttctggc atgtcacgga acttcacggg ttgtgcaaca atgctttctt ttgacttccc 300
 gcatgtcaca gaacttcacg aattacctaa cgatgggtgc caagtacctc gaag 354

<210> 12735
 <211> 446
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12735

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 ctgggtccctc tcttcccttc gcagcttgag ttactattg ctaccacaca gagctccgcy 120
 aaatttattc cagccatact cttccttgcy agccctcttg gtctcttggt caagggctct 180
 tgcggtagtt gcattctctt ccgtaaccc ggcacactcc ttccgaatgt gtgtagtggc 240
 caacttgaac ttctccttgg caagtttcgc ctttctaac tcgcttttga gagcttggac 300
 ttcttcgtcc tgttccggtg cttcaaaact ctcttcgctg acgactntta acttgggtgag 360
 ccaatctaaa cctcgatat gaactntcaa ccattcatgg taccaccaa tgatgccatt 420
 acgaatgccc ctaagttctt gatctt 446

<210> 12736
 <211> 414
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12736

[illegible]

cggttatctc	cttcttcact	acatcaagaa	tcaccgggtt	gtgtcttctc	tgtggctatc	60
ttactgggtt	agctccatcc	tctaaattta	ttcgatgc	acatttgga	gggctaattgc	120
caggaatgtc	caccagggtc	cagcctatag	ccttcttatg	attcttgaga	atagacaaca	180
acttctctc	ttgctcatca	gcaagggagg	caaataaat	cactggaaaa	gttctgctat	240
catccacata	agcgtatttt	aaatntgatg	gcagaggctt	caattctggt	gtggcccgc	300
ggatagtgg	agaaagagat					320

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<210>      12738
<211>      363
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      12738
```

ggacattaat tntgactctt tcgacaaatt cgtagaactt gtcttggatc tgttttctgt 360
 ttg 363

<210> 12739
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12739

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 aaatgttaaa caactaagaa gcaaattaaa gcagacctca cattttcaaa aaaaagattc 120
 gaaagaattg aaagttttga agaggcaata tgcggcacta ccaaaacaag aaaaatgtag 180
 catttaccag cagtaattct tattagctnt tgtttatttg atttgggtaa tatagatagc 240
 taccaagata agcagaattt tattacaaaa gatttatcta ttgaagtctt atttattttt 300
 ctttacataa ttatgcatca tctttcttgt ttttcgtact ttagaatttc ataccgata 360
 gcagtatttt tatgagaaaa catattaaca tctgaattgt taaacattaa aaacatgtac 420
 acatgtatga actntntgcg tgaaagtatt ttgatatttg aattgctaag atatata 477

<210> 12740
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 12740

agcttttagcc ttaggttgtt tcatgttgct gctcccctta tctttaacag taacaagcac 60
 atttccattc acaggttttag cgacatcaac atcatcactt gagccctcac tttcaatgtt 120
 tccattatcc agtaatatca tgcctctttt atttggacat tgagaagcaa tatgaccaac 180
 tccttgatac ctgaaacatt tgatatcatg ggatctagaa gatgaattaa tttccatttt 240
 accttttaggt gcagcacatg aatttttgga cttagcttca tcttttgact ttgtcataga 300
 atttctgttt tgccaatttg acttccatga ataagtggaa tcaaatttgg aagtactctt 360
 agctatcaat tgcctctcca cttgaataga tttatgcagc aagtcctcta tctccacata 420
 atga 424

<210> 12741
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12741

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 gcccacatt atttccatga cacaaatgca aaaatgatga tttggaaatt ttatgcaaaa 120
 ctggatcatgc atgcacctat gtggacgctc aagtgtcaaa tttttatggt catgtgatgc 180
 tagggctcaa gattcatttc ctctatttta aatcaacca atgtttccaa aatatgttct 240
 tttatcaatt tgtgcattca tccgagtcca tttcgggctt ccggagaaat ttcacagcat 300
 tcacccttca ggtgtagaca ctttttccaa aaattgggta tgatcaatga attcttttca 360
 aagaaaagtt ggaaatcatc tcttttcaaa agcatgtcgg ttnttcagct agacaactta 420
 ttattctttc ntctctcttt tttttatcat tatcatgtgg ttatttcttt ctctt 475

<210> 12742
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12742

agcttatttt tatatttata tagcttgata aaatagcttc actttctacc acacattaaa 60
 tttaacaacc ttctggttca gggtttcaac ttttcacctc attaaaactc gtcctttttg 120
 cttttctcct acttgataga tttaatccta tagattgnga ttagttgctt ggtttttaat 180
 ttcttccaaa acctttaaaa ttctggattg atgtctagga gacaaccatt ttagttattt 240
 caagggaac ttatattgta catgccaata tcagtcttct tacatccagg gtcttaagta 300
 gcacattata gtgctgttat agtggcttta cggcccatgg ctgctgccat agcatagcan 360
 gtaagtgtat tggcccctgc agacagtat 389

<210> 12743
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12743

gcttcttcag gttgtgttcc caccaccaac caaattgtan tttttagtcg taagggatag 60
ggactaattt atgtagccaa aagatttact ttttaataa tacagagaat aagattacat 120
caaaactttt ctgcaaaaaa tccacataaa attcagcaaa actgcacatg aattatcttg 180
gttttttagcc atttcataaa caaaatgtgc tagcaaaggt catctaccaa gctttgggtg 240
tgtaaagact aaagaaaata gatctatttc attacttaat tcagagttcc caaacaattt 300
caagcctcag caataatcaa gtaatcaact ataactagta tacatagttt aaaatatgcg 360
gccatgtgat accataattg tgtcacatac ttatccactt tggatactta gtatctaata 420
ctctntaaat actnttaatt gcttctttgt ttcttagctc ctaattaagt gt 472

<210> 12744

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12744

tcaagctntg atattctccc acctaatgga ctagtcttct caagtagttt attctactca 60
atgtgagact tctaacagta tattactttt ctagtgtata atttacaata acatgcatgt 120
aagaagtttt attcatgctc aaataaaaag tagaaaacta aaacttcttg gatgtggtat 180
catcagccaa gaaataaagt cttttaaagt cttgtttttt atggaaacta ttatgcaact 240
caaatatgaa gtaatctata gctgttatgg tcttccttgc ataactctgcc tcccacagtt 300
gttattcaag agccagacaa tgtactcatt ttctgtaaat tcttcacgtg gtgattggat 360
ttggtctttc tgactgtcga ccttattc 388

<210> 12745

<211> 361

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12745

taagtgggag aaagatctta tattggacct aaagtcttct tctttcatta ttccttcttt 60
tcaaagctag tttattgagt ttggataggt aagagaagct ctactttgat tgaattcttt 120

gtttaagtgg gtgctacttg aaatgcttgt tttgtgtgtg caatgatttg tatgtatggt 180
 atatgatgtg taatttaaata tgggttaatt tagaagtcac ttgacgtctt aagaaaattg 240
 aagttatgca aatgtttaca ctttaagccaa gagtgattnt cgcttaaacg aacatgtcta 300
 ttaagaaata tggttgttgg attcaagctt aacgtagatg aatataggct taacatgggt 360
 g 361

<210> 12746
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12746

agcttttagga tcaaactctc ttctctcttt ttctctcaac tgttcttcat tcttcttcct 60
 ctcttcaatt ttgttcttcc ttcttcttgc acaaatttca tcgctcttcc aatgggtgatg 120
 atcatggaag gctaaacact taatcaatcc aaggatccat tccaagcaag gctaaatttg 180
 agttctgggt tagtatttca attttgtgtg aatgttcatc ttgttcttca atctattttt 240
 tgattttaat gattatgaat atgcttanga ttgaaaatga attangctat ggattcattt 300
 cctaatttca aaatctaata acagatngtt tggatgatat tccaacctaa attgcaatct 360
 caatgaatnt aaggatcaat ttgattaaac tatttctaata gacattgact aaac 414

<210> 12747
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12747

ntagggttga ggatctatat aacaacttca aagttntagt ataaggagac tgttaataga 60
 ggagagaata ttctaggggt ttgcattttc agtttctgtg tactgttcac gtagcaatca 120
 taatttcatt ttttgcttca aattgcaatt tcgttttcta cttctgcctt tgaattcggt 180
 ttcatttctg ctgattaatg gaaggctgag ttccagtggt tgttttctct tgaggatcaa 240
 gcacaactct ctttgagggt ttgctattac tattgaattc tgatcagttt ttcccttca 300
 ccaattgctc tgtatttgtt gctgttaatt catgcatgct taatgcttca ttaattgtct 360

ctgcgcttaa tttacgttca tgcttaatga tcagtttcgt tcatgcttaa tggacatgtg 420
agacggatta attggtggat gtgttactta ctcacataat ga 462

<210> 12748
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12748

agctnttcta atgggtaaaa ggctcacatt cactttcttc tacatcatat tcaaacttgt 60
ccaaataaat aataaagtca tctcgactca nagaaagtca tataagtctc atacaattaa 120
tatagaacct atatccta atgcacatcct atcagagcgt ggtgttcccg tgtcctctag 180
catgagggttc ttcatagtca tccacctatt catctgctcc cccgaacaca agttcaagat 240
catcacagga tccaaacaca acaacacaca gggagtgagt tatcacattc ctagctaata 300
gagaaacaag acaattaaat atacatatta tataaatgag ataccactng cttaaacata 360
gctcacgtaa cttcaccact tcgtcattca naattcactg ttcaattatc aatcacat 418

<210> 12749
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12749

tcacctgcaa ctccaacccg ctttatatcc taacaacagg ttatctttat gtttaactnt 60
aatgtttgtc cgaccataa aatatgaatt atgtacaaca aaaatgttaa gaatctttta 120
tagtggtcac cattgaaaat gctcttaaaa gtgaacatat ttagcatata taattatgtt 180
acaaaaatat aaatttttta caaattaaag gtttactcat aattctttta gacaattgtg 240
ggaaggggtt tgtcatgctt ttctcccttg caaatccaat acatataaga tctctttcga 300
tataaagtag aagtgttttt gagagttttt ttaataaaat aatttatatt tataatagag 360
aaactttcaa aagcatgtat gaattgtatc caaacaatt cctaattgggt tctagagtgc 420
acaaggttgt aatgtcaagc acggtacaca agttttctta 460

<210> 12750

<211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12750

agctntgctg atttgggtctt cgccggcaaa aggatcgaaa cgggtctgaa aagaggcaaa 60
 tttgatcatc ctgctttgat gaatgagaaa actggggcaa atgaagagga tgagaatgag 120
 gaaggaaacc atgttgaggt tgtcattcct acatggccaa acttcgcacc agcccaacaa 180
 tgtcattact cagccaatat tagttgttct cattaccac cacctagtca cccacaaagg 240
 tcatccctat atcaaccaca aagcctgctc gccgcacatc cggtgccaa acaccacctt 300
 tagcccaaac caaaaatgaa ttttgcagca aatagcctgt aggattcacc ccanattccg 360
 gtgtcatatg ctaacttgct cccatatcta ctcgataatt caatggttgc tataa 415

<210> 12751
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12751

tctccgaagg gcatgggttat ttccagtttc ctgaaaatat ctaagaatct ctccaaatgg 60
 tggtecttct ctttcttgga aggtaccaca ggatattgga cttccacacc ttcattcaca 120
 gctntttctt tnttcttctc tctagcctgt tcaattctac tcctctcgtc attcttattt 180
 ttttcattnt ttttcaattt ttttattttc tttttctttt tctacttctt tntctttntc 240
 tttttcttgg tcattaaatt ctgttttctt gaccattatt tgtttttctt tttcttgatt 300
 actttcacat atcacataat ctttcttttc atcagtgcct ttcttttcag cagctntctt 360
 cttgggcaca acactntcct catcctccgc ctccacaaac ctcttactcc ttgtcatcac 420
 agctntgcat ttctccttgg gaattttttc t 451

<210> 12752
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12752

agcttgtata aagtttccac ttccccgtgt taccggcaaa gagatatatt tagttagcgg 60
tcaaccacat tgcaattata agtgtatddd tggaagaaga aaaaatgttt ttttaaataa 120
aaatattatt tctcatcac gagtgagaaa taacacaagt tcttggtccc ctttttattt 180
atattgctg actgtgactt agccgcacat gcaacagata aggaagagca acgtcatgcc 240
ttcacttttc aatactgctt ggattcagaa aaaaaaaga gtgcanatat tctgttttg 300
gagggagtgg aggtttcacc tgattagcag tttaggttcg gcgaaacagc cagaaatgaa 360
acacagtgaa ag 372

<210> 12753
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12753

tgtctcttgt gatgtgaaga cacataggaa gtccattgng tatttgtaa cattccagca 60
taatccattg actctagatc actttcagaa tagtctactt gtattgcatt taaatggttt 120
gcagcctcca agtccctgc actagctgag cttctcaatt gagagggtgc atcagacgat 180
gtgcatgtta gcattgcatt ccacctgctt gcaacggaaa caatattttg agctctgtga 240
gaaattcttg tcgcagcatg cagacaaata atgatgccca ccacctgaac aagtgtggat 300
acctaaaaga aacaacagta caaaaagaaa tggtgaaatg aaaggaatta gttccttcaa 360
tctaaatgcy tattaatact ttgaacataa agagttggac ttacagcana atctcca 417

<210> 12754
<211> 348
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12754

agcttagcca actaatccaa acttttggtt ccatataaga agtgcataag gatgaacatg 60
agggactcct tcattgatga gtaacaatgc attttgagaa tccgactcaa gatgatggaa 120
gtgtagccag tatcatagc gatgcaaagc ctatgataaa tagcaaaca tttttcattc 180
aaattaatat ttaatgtana tccacgatta tcattactag ttaatcacta ttggtgatgc 240

tatatgagtt ataagattaa cgtgatgatg gttgaaggaa gaaagagaca aaaattgtcg 300
 gttaaataca ttttttaact aaactatcaa ttaacaacta tattaata 348

<210> 12755
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12755

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 ggctaaagtt gagtatgaga aaagattgca tgagcaagtg aagatacaaaa gaagaatgaa 120
 agttatgccca agcaagccaa caagaacaag aaaaaattgg tacttgaacc aggcgatgat 180
 tatgaacatt tgagggcaaaa tgttttccaa gaaggaggga atgatgaaaa tcctaaaatg 240
 gcacaaatac agggacctat gaccacgagt aggaccaaac agtcagtcaa tataccctcc 300
 aataattggt atcagacata cttacaagg cccaaatggg anaagatgaa ggcctagagg 360
 caaagacact accaagaata ttaattggtg ctaaagaccc aaactaatnt gaaagcccat 420
 gtcaaatatg ttctttttta attatatattt tttcattt 458

<210> 12756
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12756

agctntctcc caagtcctaa atgacatttc aagctagtat taactcactn taacctccat 60
 ttaccacaga attcagactt aaccttccaa ctctcaaagc ctactcttt ntccactcat 120
 aacaccacat tctcactntc caaccctagg ttaactctac atttcatctc taacagtttt 180
 ccatgggcaa tttcagcata caaacatcat aaacatcatc acaaaaccct aaaacagaat 240
 gggatatgtct aactcatcca aacatggcaa tttcaacaag ctttcaacaa gtttcttcac 300
 aaataactat catgaagcag aaaactagca agactacceca tcatatctnc canagcccca 360
 tacnccacga aattaagaga gaaagaagtn cacccaaacc tgaattttcg aagtcccact 420
 c 421

<210> 12757
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12757

tcgattacac aagtcttgta atcgattacc agaggagatt ntcagaaaat aatttccaag 60
 agtcacatct attcaaatgg tttatgaatg gccatcaaag gtgacttgga aacacgaatt 120
 taaagagagt tttcattgcc caaaaagttt tatcctctca aaagattaag agtttttctg 180
 aactgaaatg tcttatcctc tcaaaaagat tccttggtca accacttgca tattcaataa 240
 ggaattttga ttgatcttca ttgtacaatc tatctttttt aagagagatt tcttcttctc 300
 ttcttcttac ttctgaaaag ggattaagag actgagagtc tcttattgta gaggattctt 360
 gaacacaagg gaagggttgt ccctgtcgtg gtcagacttt gtaaaagntg ttttacaag 420
 agagtgganc atctcaagtg ggtttcttga ggactggacg t 461

<210> 12758
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12758

agcttgtata tgaacaaaat tataatcgga agctngaagt taaaacacaa gttgaaccaa 60
 aatacaccta gagcatattc gtgatagata gattatgtgg ggtatttcag ttaaatttta 120
 atttttttat tagttgaaaa ttttatttaa ttgtttaata aataaattct ttttaataat 180
 tcttaatatg ttttagaatg ttaattcaac taacattttt ttattagctc tttatatttt 240
 cttcactctt atcttttatg tatttattca ttttcttat tactttgttt aaatacatca 300
 taattttatt attttacgtg tttcaactac ttttaaccgt agtgtaatta aacactttta 360
 attttataag ctagcgttat aacattgccc ttattaactt ttaagtacca cttgac 416

<210> 12759
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12759

acaatttatt gtgaattttg ttaagtacat gatgtatagt atanttttat tttgtattnt 60
 caaaacaaaa attaaatata taactaanat atgattctac tgtgatcttt gttgaaacat 120
 aatcatattn tgggttataat taaaaagagt aataaaaaag ataatgtgtg tcgttattaa 180
 tataatttat atcaaaatta atttaactag aaaaaataat ttaattctac agctaatttt 240
 ttgtgaaaaa atatctaacg ggaagacggt ttcattggtat aaaaaaagtg caaaaaaact 300
 acacaatgaa natttggttc cattttggat ttatacacag aaacatgttt ttgcaaaaata 360
 tatttctca tgtatttttt tggacctcct tcttatacaa cgganacatg tattcattgt 420
 tatgtttgag actgacnaaa tatac 445

<210> 12760
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 12760
 agcttttact cttttctctt gcatacttgt tacataattg tgggacattg cttttcttgt 60
 cagttgtaac attgacatat atatatatat aaaagatgta acaagttagg cttttatcaa 120
 ccctatgatt ggaagaatag ttgtgcatca tattatatta tatctactac ttccacttta 180
 tccttactag ttatgactac taatagtaaa cgtgatattg ccaaattcaa ctgatataag 240
 cattgctcag atctgagtaa cttttcatcc ctgcgttcag tctgagccca ataatgaatc 300
 aaatatgaga gcacattgaa attcgactga atatgaagca tccgtattcg gtgcagtggt 360
 ttacagagac tgaaatgcca cgaatagctg gatattttat tccac 405

<210> 12761
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 12761
 atgccttgcc ttgtctttgc gaatcatcta tcttatctaa taacaagaat attacaattg 60
 tcaactgcgta tgttgcctt ttcggaaaaa tcatgacctg atgcatgggt gatgccgtaa 120

atactatgct taacataaac ttatgtgcaa actttctagc taagaagggt gtgtctcaat 180
 atgttaatth catttcttga aactctctac acagagtgtg agattgaggc ttgcgggtcat 240
 tattgttggg aacttttcgg ggttgttgca gttcctctaa atggcatagc taatactact 300
 attttctagt aggaactgct aattcatgct tattatggaa aacaattaaa cagtactact 360
 atgaatctat gatgtagtgg agaccttaag aactaagttg cggttcttga cgttgctgaa 420
 tgtcataaat tcagtttata atgatatatg agatgtta 458

<210> 12762
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 12762

agctatgtgt tcgatgggtc tataacatct atccccaca tggaaaaagg ccaagggtgca 60
 gacataacat tcagaggatg tggcggaaca ttgacattgt ccgcgtatgc ttgacattta 120
 tgacatttgc ttacatgggc acaacaatcg ctttccatag tgagccagta ataaccggct 180
 ctaaggatct tcctggccat agcatgcca ttggcatgtg taccaaata acccccgtgg 240
 attacctcaa tcatgtagt cacccttttg gcactctacg attgtacgac ggtcatgtcg 300
 gggttccggt tgtaaacgat ggtaccactc acatagaccg cctggttctt acgtaataac 360
 ttgaaaatgg gctcacatgt aggggtgagt agtgagataa a 401

<210> 12763
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12763

nttcanatgg gtaaaaggct cacattcact ttcttctaca ttatattcaa acttgtccaa 60
 ataaataata aagtcattct gactcaaaga aagtcataata agtctcatal aattaatata 120
 gaacctatat cctaattgtc catcctatca gagcatgggtg ttcacgtgtc ctctagcatg 180
 aggttcttca tagtcatcca cctattcatc tgctcccccg aacacaaagt tcaagatcat 240
 cacaggatcc aaacacaaac agcaaactgg gagtgagtta tcacattgct aactactaga 300
 gagaacaac acaacatata gtagccaaat acaatttact tagcatatct cacattattt 360

catcactttg tcattcatca atcacacttt tcatccatca atcacacctt tcaatcatca 420
atcattatac acaggaatca cacactccga tcaagacata ataacacatc aatttcat 478

<210> 12764
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12764

agcttgtaat aagctttaaa tgccttcatg tcatctgtaa cctttacaag ttcaacagtt 60
ggcttctccc tcacaatagg caagaaagca ccttggactt gtgttgcatc tgcaagctcc 120
tcgggagtag aatcaccagc ctacaataaa acaacagttt cacatgacac acaaacatct 180
ttcatttcga ccttcatcag aaatgaaaat gcctaccaca atcaaaaatag ataatggaac 240
atctgaatta ccttaacctt gtgtgcccgt cttgggaaca caaccaattt ggccttgtat 300
gttttcagcc tctgcacatt agctggcaga ctntccaaag aacggttctt gcgacgatga 360
tcaacagcaa tacctat 377

<210> 12765
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12765

atgaaacgta tagattctaa ggtttttaat aatattacaa tatttggatg cattagactt 60
gtactgtcct ctggacaaat ggaattagta atatatagca tgagtgcacg aggtgacagt 120
tttgatatat aaataataaa acctaaaggg tacatcatat aaaacaaaac aacaaaaaag 180
ccccctcan agtggacaca tgcatgccaa atatatatat atatatatat atatatatat 240
atatatatat atatatatat atatatatat atatatatat atatatatat aattgtcaca 300
tagatattag ttaatattat agacatgaat ctatctaata atctctccgt anagttcaga 360
agacagatgg tanagaagag atacaactaa cattttatct ntactgtctg cacataagta 420
acagagaaca attgtatatt ataagttaac aattatgttt ttctctatat aaccacaag 479

<210> 12766
 <211> 644
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12766

cacaacccca agcaaccaca ttcgcgacgc gagacaacgt gaaacacnac aaccgacaca 60
 aacacattga acatgtgaac cgtgaaacca cgcgaaacacg ggtacgtcca gaggagactt 120
 gagcgcagac ctgcttgcac gtcaaactac tattcaaagc gacccaacg agcgagaaca 180
 tcacgcgaga cacctcacgc gcaaccgaac acatacacta caccagacgg ccgcaaccaa 240
 ccggacacac tagcgcaaac agacgcgtca ggtcaatcaa cacaatggca catcctacga 300
 agcatggcaa gggagccaac cgtgcgtccc gtacacattg caccgatagc tcacagtncg 360
 agcagtagca cacgctcgtg agcacagtcg tacacgaagt ctctaggaac gtgagagggg 420
 gcctcctaac atccaacaag cccgcggacg cagaanacaa agcacatgag cngcaccgc 480
 cgcacccaac acagcggaca ctccacacag aaataccgag gcactcaacc gcacactcac 540
 aaaccaaccc atacgccgnc atccacaagg atcgacgaac gacaagcaga cggaaccgcc 600
 cagtcagcga gacaataaca cgagatccta agcgacgcaa accg 644

<210> 12767
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12767

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 tgtcaattta tgatttatac acttgagtct tggaatttat ctgctgctgt aacatgtggt 120
 catttttggt catgtctttt tcagattttt gagaaatatg ttaagaattg ggttgcaatt 180
 tgtgcgccat tccagggtaa gtaattcttt tctatattta taagaagtat ggaattataa 240
 ttaagggtat ttgatgaatg attcttttag catttcaatg atgggtctat ntaatttttt 300
 ttccatgtnt aatatattgg aagaacgcac tgatcatctt tcttcatagg ctaaagtagt 360
 tgatggacaa aaaaatgtgc aaaagcatga t 391

<210> 12768
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12768

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 aataatcaag ttccctattc tttctatgat agtatgtatg atgcaatatg aaactggcctt 120
 ttattctctt ctagaagggt acattactcc aaatcaaate tcatttgtac agcatcactt 180
 caatcacatg tctctttatt ctcttggtta gttacagaca gaatggagaa nattaagaga 240
 ctctttcttt agtcagaaat ggggggttacc aagagaaatt atcttggtta ttgggataaa 300
 ttntgcaagc ctaaaatggc agggcctaca tcgcctggct ctcttggaan taatttagtt 360
 ggatcttact agttataagt gaatattgat cagcatcgca tgctnttatt aattttatga 420
 ttattgcttt aatttatttt ggtacattat caccatttaa tatct 465

<210> 12769
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12769

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 gaagtctgtt ctgtgtagaa catcgggtgat gtgctggtga tcatgattag tgaggctcctt 120
 actgagctgc gtccactgcc tgngtctgag tccaagctgc agctagatga gctcttcatt 180
 gggctttagg cctctatccg aagtgtcatc atgcggatct gtactgaatt cattgtcctg 240
 acttgcttgg tagacgatca gggcttgtat tggaggcctt tcatccacgc tcatgacttg 300
 agtgccctca tccacagtgg gatgaggctt ggctggctcc ctgttgggac gacagggtgc 360
 tacctctatg ctttctgcat agcgt 385

<210> 12770
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 12770

tctaaactnt atacaagaat gaagctctga taccacttgt tatacaagtg gtctcagata 60
tcttaagaag ggggggttgaa ttaagatatt acaaactatt tccccatta aaattctatt 120
tacttttcta ttcaagttac aaattccctt aacaatgaac ttcttaaata ttgattcaaa 180
tagatcaatc tgaatataaa tataaaacaa taataaataa aagagtttaa gggaagagaa 240
agtgcaaact cggatttata ctgggtcggc cacacccttg tgcttacgtc cagtccccaa 300
gcaaccogct tgagagttcc actatcttgt aaaatccttt tacaagttct gaacacacaa 360
gaacaatcct tccttttgtgt tcagaattct ttacaacaa gagaccctcg gtctcttaat 420
cccttagag 429

<210> 12771

<211> 414

<212> DNA

<213> Glycine max

<400> 12771

agcttgatta acattctggt tcaaccatc tgatggatct ccatccctat tcctatctgc 60
tacaaattta aaaaattagt caaacttggt cacaaattga tgggccaata ttgtgacatt 120
cgtgtcagat acataactta catgcatttc tctctatctt aatcaattta attgggttact 180
tcttaattcc tattgttact tccttcggcg gtcgtagatt attgtggtct taattaatct 240
ttatatgaca tgtaattggt attaactatt ttcaaaattt acaagcttaa atacatcatt 300
taaaaattgg ccaagaccaa gaatacatgc tatgggatgt ctgcatgtca agaccatgaa 360
tacaatactg aacttaacca tctctttata ctcttctaag atatttctct atgc 414

<210> 12772

<211> 444

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12772

gtgtacatgt aaaagcaa at tgaagaactt cacattgcat atcatgctaa ttctgactta 60
cctattttcg tatagggtgt agatagcttc gatctatact tggaatgaaa atagcaagca 120
atctgcaggt agtcatatat atcttgtttt aaaataagca tagtcaaaga aaacaaactt 180

gaaggtgtat tcagttgcat tagaagtaga tcataaacca acatgttggt ttaagtggaa 240
 ctgaacttaa tctcctttaa gtaaggtctc aagttcgagt tttgtaaag aaaaaaacat 300
 agttaggaag ggagatccca ctanaggtaa caagtcagt ttctagcaga gattaatcat 360
 caataaaatt gacggatact ctataactaat gtcattgacga caaacaacaaa taaaataaaa 420
 cagatcataa actatataac ttac 444

<210> 12773
 <211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12773

agcttagctc aagacccact aaaacctatt ttatgaataa gcctatttta agtttttttt 60
 caataacact aatccaccaa ggaatatgat ttgtttcagt tttgatatag accatggacc 120
 caaagcagtt gagtatatcc agatatgctg tattatttcc catcacttgg tttcacaatg 180
 cttttctgct tgttacacct ccagttntta tgcagccaan attcaacaaa acatcaattc 240
 tttaatatatt aagcgcaaat aactgttaca taattatttt tanagacaat gttgccttat 300
 tctctattat cagaatacaa ttatttagca gttatcactg 340

<210> 12774
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12774

tattaaactc aatannaaag gcaacgtata attcatgcgg taaatacttt ttttcttttg 60
 taccaaaagc aaacaaaagt aataatttga tataatgaaa tagtacattg cctaattgat 120
 tctcgaccat ctgagaggat tgttccacag actgcaagaa cctcaaaact cgcttccaat 180
 ttcttcaca tctatcatat agctccctct gagaattcaa acccatcctt gcaaaggtaa 240
 catgggaggc acacaattga aatgcagcaa agtcaaccaa ggacttgaac ttgaaagggt 300
 gcaaaccatg actaccacca aaagttttgg aagtcaattc taaacanaca aggtccattg 360
 cactgagcct gcccgagcac agaatttcta ataccaaatg tgatggcaat tcctcaatgg 420

aaaaatggtc tgcaacggtc tccatcctc

449

<210> 12775
<211> 586
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12775

cccacagcca aggcgatcgg tgaaccggac ggcaaagcga atgcaaacac acacccaaac 60
caaaccacga cccgttgatc cantgtagaa cntnntgaa naccntcggc acacncaagg 120
gacgaancag acgcggaacc gcgagagcca cgagagacgt tcagcaggca tgtaagccca 180
gcaatagacc agagcagcaa ggaggcatag gaaggcaaca acagcaccgc cagtgcacac 240
acgcgataac agcacgacat gcgagcattg aacatagcga caccgcacag acaggaaagc 300
cagactatac accgcaagaa caatccccgc aaagacacaa ccaagacgag ccacatacag 360
gagaaaaccc acgcaaggca cgaagatcaa ccgcgcgaga gacaacagac gacagggtga 420
caaacgaacc aagctaccac accaagcgca aaaagaaagg cgattacgcc caggagacca 480
accaccgaaa gcaacaaagc atacacgtga tacagctggg acgaggcgca aaaaaaggag 540
agtcatagcc tgaaaaccaa accacccacc atgaacgaag caaccg 586

<210> 12776
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12776

tggtacaata atgattgata cgaaaccgac attgttcgaa attatgatga aagccacaaa 60
aacacgaatt gaatcaatag tctcggatct ggaaacttac ctgctgagga acgaagaacg 120
gatgaagaac agtcattaac ggaagacaac cttcacggat tcgcttacga taacatctca 180
gaagcgttac tgaagctcct cagcttggat tttcttcacg gaaactatct ttttcacctc 240
caacagttga aatgcatagc cacggggatc atggaccctt agaacaggcc ccttttttgc 300
ttcttatana gaaaaagtgt gaggaggtt 329

<210> 12777
 <211> 275
 <212> DNA
 <213> Glycine max

<400> 12777

cgcgttctag cttgttttaa gtataacaat ataggagatt gttcttggtt gattgataaa 60
 gacttacatt ttaatcatgg gttaacgagt tatacaactg atggagatat attacactta 120
 gttagggatg cttttgaaaa tgagaacgag ataaatgttt attctcatca tgaagtcaat 180
 atccaatttt aaaagaagtc ccacagatgt tgtacttgga atgtgattca attccagata 240
 ctgttgagaa tgaggataac ttatatgatg tacct 275

<210> 12778
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 12778

gtacatatat taaaggcatt cgctgggttaa tcttgctata gtactctcgc aatgcgattc 60
 acagtttcag gaacatattc aagtacaaga ttcaagtaaa cttcttcttt gtcagtcggt 120
 gaaaagaaac aatgccttag ggcaacaata tttggatgat ccagcatttg cataatttgt 180
 aactctctat tcttgtatcg cttgtcctgg agaactttct tgatggccac aatttctcct 240
 gtttctctac attttgccta ataaaagcat tgataaaacg aagaaggat catcagtatg 300
 tcatacatca acagcatggt gtttagaaga gatatgaaaa gcaaactcac ctgaaaaaca 360
 acacccaaaag agcctgtccc cactacatgc tctgcaatat aactaacatt ctgtcaactc 420
 acaaataaaa attatgtcag aggaagtatt ag 452

<210> 12779
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12779

agctntcttc atttgtcgat atggatgata atgtttgaga aatcttcggt gccttgtgta 60
 tactatcttc tttccatggt ttagttggaa gaagctcata tttttctcac atataggaca 120

tgtatgatgg cctttgacac tataaccact taaatttcca tatgttggat agtcattaag 180
 ggtgcaaaaa accattgcac gcaacctaaa ggtctgctgc agattcccat gccacacatc 240
 taccocatct tcccacaatt ntgtcaagtc ttcgatcaac gaaatcaaat agacctcaat 300
 atcattccct ggctgtcttg gagccactat catcatgcan agcattatgt acttttgctt 360
 catgcacaat caaggaggga agttgtaaat cattagcana acagactatg aactgtgat 419

<210> 12780
 <211> 474
 <212> DNA
 <213> Glycine max

<400> 12780

atctacatag agtagaagat agatcattga tccatcctcc accttgttgc gataacacaa 60
 caatcataga gacttctcta gaatccttgg ctggtgataa agctatcaaa cctcatgtac 120
 cattgccttg gagattgttt caaaccatac aaggaccttt gcagctgaca aacatacctt 180
 tcttttactt gaacttcaaa cccttcaggc tgtttcatta gaatattttc ttccaatctt 240
 ccatggagaa aagcagtctt gacatcaagt tgttcaagtt ccagatcttg gtttgccact 300
 atagcaagca gaaccctgat ggatgtatgc ctaaccataa gagataaaat ttcgttgaaa 360
 tctattcctt ctttctagct gaatcccttg gcaactaacc tagccttgta tcttatccct 420
 tccttttcta aaagaccacg tttcctcttg aatatccact tgcaacctac caca 474

<210> 12781
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12781

cataacctat gaaaacacat ttgatagccc gaggatctaa ctttcccaa tggggaccat 60
 gaacatgaac aaagacagaa catccaaaga catgactctg aagattgggtc ataattgggaa 120
 cagacagata aaatgtgggtc atgagttgag taggactaac accatttaaa acacaagaag 180
 ttaacctatt tatcaagtaa gtagcgggta gaacaacttt cccagtaag atttaggaat 240
 agacatttg aagagtaaaa ctctagcaac ctcaaagaga tgtcgatntt tcctttctgt 300
 aaccaattt tgttgagggg tgtccacaca agttaactca tgaacaatac cattatcttt 360

gaggaaattg gaaaggggtt tattcacata ctctctccca ttattagn

408

<210> 12782
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12782

agcttctatg gagactgaat ctttgagctt caatgaggtc cttcaatgat gatttttcac 60
catggagatg cagcagaaga taaaggaaaa gagatgagag gaggcgatat ccattaagaa 120
ataagccatg gaagaaggag tttcgtcacc aagaatgtgc cttggataaa aagcttgag 180
agaatgtttc aatggaggaa aataaagaga gagagagaga gagaaaaaga gagaagggga 240
gcacgaaatt gaaggaggaa aagggggaaa gaagttgaac tttgagttgt gtctcacatg 300
actctcattc atcanagtta caacaagtgt tacacatgtt tttatttata agcctatgta 360
gtttcttgaa aaacttcctt gagtaagttc tttgancagc tagagtntag ttataaacac 420
ccttctaatt 429

<210> 12783
<211> 464
<212> DNA
<213> Glycine max

<400> 12783

ctctcttcca tggcttattc cttaatggat ggtgcctcct ctcacctctt ttcctttgtc 60
ttcttctgca tctccatggt ggaaaatcac cattaaagga ccccatgaa gctcaaagat 120
ccagcctcca tagaatccct ctttgtaaac aacaaaaatt tctcaattga ttatttttcc 180
ttgtttgttg attgttgcaa ttctcttagt gtagtactag ttgaatgaaa tagtgtgtta 240
atctctcttc tccatttctc tagtttttat tttcgacttg aatcctttac gaaccctatt 300
ctacaagttg ttgaactata ttccaaattt ctaccttggt caactatgga acataaaatt 360
attaaaggga ttttagaatt gttaatgcat tctgtgtcaa tttatgattg caatttgagt 420
gtttaaccat atagcctgct accgacgcaa gatagacgga caca 464

<210> 12784

<211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12784

agcttgacat gctgccatth tatcaacaat atattctgct tcacatgttg acaaagcaac 60
 tacactctga ttcattgagc accaagagat tagtgatgtt ccagaattga aaacataccc 120
 agcagtgttt ttcctatcat ccttatcacc acaccaatct gaatcactat aaccaaacac 180
 ttctcctttt atattcttct gactgtaagg atataaaatg ccaagatcca atgttccttt 240
 cacatacctc agaatcctct ntgctgceaa gaagtgaggt gcctttggtt tctccataaa 300
 cctacttatt aacccaacac aatatgcaat atcaggtcta gtgttacata cgtatctcaa 360
 tgagcctaca atttgcttgt acaaggtagg atcaacttct ttctcatccc catctat 417

<210> 12785
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12785

ntacattcaa atgcaaggat aaaaagactt gattgaatgg acctctcatg gtctcaagtg 60
 tgtttacaac tcaataatca tataaccttc agataaactt tgcttaagaa acaaaaactg 120
 aggtttgtaa gttgtaaaag ttcattcaaa cattttattgg atctgagaac acaagggtggg 180
 tatatataga gaaaatagtt ataaccatct gtaattgatt aaattggcaa tgtaattgat 240
 tattacgtga aagtaatcaa ttatatthtc caattaatcg attaaagtgt tcttccccaa 300
 ttctagaaaa tataattgat tattttcaca taataattga ttacattgcc aatttaattg 360
 attaaagtgt tcttccccaa ttntggaaaa cattcaagaa caatgtaatt ggtaaagtgt 420
 ttcttaatca cttctaggaa cactttcaag aatgatgtaa tcaattacta ta 472

<210> 12786
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 12786

agcttcaccg gatgacgctt atcgaacatt tcctaaccga cgtcatgcaa atttcgttca 60
 cggattgaat tgaaaactcg ttaggcgaca tctgtcgtga agtagcgacc gatatttttc 120
 aaccgacatt gcacaattct tttgataaaa actagctggg cgataatggc ctttttacgg 180
 cagagtaagt tttcttggtt tgggtgttgca taaaaaagct acaatgtact tcggctaggt 240
 ttttcgtgcg agttcaaccg acattttggt tcggccagga taacattatc ccacctctgc 300
 aaaaaaatat ttgctaaccg tgtgcatgca tatgtcattc aacgattgaa tagaatactc 360
 aatagccgac aacggtcgtg aaatagtcct gactgatatt ttt 403

<210> 12787
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12787

ntgatgcaac atttggagag gttaatgaaa caacgagatg atgcgctcca tgagatgttg 60
 gatcttatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggc 120
 gttcctagac aaaaccgaat tgatggtatt aaactcaaca ttcctccatt taaaggaaag 180
 aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac 240
 aactatgagg aggacaaaaa ggtgaagctt gccgccacgg agttttccga ctatgctctt 300
 gtgtggtgga acaagctaca aaaggagaga gcaagaaatg aagagccaat ggttgataga 360
 tggacggaga tganaaagat catgaggaag cggtatgtgc cggctagtta ctcaagggac 420
 ttganattca agcttcanaa actaac 446

<210> 12788
 <211> 417
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12788

agctntctgt tctttaaggt aaaggcaagt taaaatgggc tacaaaacaa acactttcaa 60
 tgaatggcaa gaaaatcaaa tgcttggttg actacttcaa atagcaaacc cctttggtaa 120
 gtcaagggat gcctgagttg taaatccctt caccctttga ttctcacgga taacaaaaaa 180

atcctttggt aactntgggtc gatttggtttt atctaattat ctctctttgt tagtagtggg 240
gcttgttcag agttacactt gaagctaaag tcatgcttaa caagacgtgc gacccaacaa 300
aaagatactg ctatatctga taagtttata ttntgtatta attnggtaat ggttaccgtc 360
caatggaagt tatttcgtgc gaaaaataat ccagaaaggg acaagagcat cgctacg 417

<210> 12789
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12789

taagtaaant tagtactaat aaactttact ggcattggcca atttaaccn caacaagagc 60
taggggtcta tgggaaaatg ctacaaaaag aagtgaatcc agtatgtttt atttctagaa 120
tctctggctt gaactaagca aaattcatta aaattccaga aaggagtaag cacataaata 180
atTTTTtagaa aggaacctac aaactcaact agctctaate aaggaaacat gaaaccgcac 240
tatggggata ttttaagaaa gaatttcctg ttaagaaatt tgcacactca agtcaaagca 300
atgtcaaact tgtaaaaggg tagtggagct gatacctgga agaagtttan aaaacctcat 360
ccttaaacca attcctatat ggnagtccac aaagccttac agacatggtg attaanaaaa 420
ctgcctttcc actttatata gtagtttctc atcanacatt tacaat 466

<210> 12790
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12790

agctntgtgt atcacactgc tttcgatggt gttgcattgg gaattgtaag ctgtttctac 60
cctttaacat catctatact tgtttcattt ttattttctt tcattatgaa taaatataca 120
caagattaaa taatttcttc ttggtataag gttagacata ttgagtgaac acaggatttt 180
ggaatataac actcaattag agtcatagac ctaaagatgt ccttggtgtg tttagttttg 240
taattgacca gctctagaca ttctagtact ggcagcacca gatcagaatt taaaatctga 300
gtgctattgg ggctatatct gatcgggctt gaatgttgac ttcactgagt tggatttgta 360

ttcactttaa ctagcttaca actaacattc tttcctttgt tgcataatgt a 411

<210> 12791
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12791

agtcaactgt catttatcta tcaatcttca ttccactntg tttcttcttc ttttacaata 60
tctaaatcaa tttcccgagt ttgataagta atgaatgaat aacgtcaacc tgcaaataaa 120
gaactgatac aaatgtaaca tattgtgaaa taatatcaaa gtagtttacg ttgcatcagg 180
ctaaaaaaat atataaccaa tttcttttaa ttatattaaa tgaaagctga aatataataa 240
aaatatagaa ttcttattaa aattctatta ttatgaattt ttcgcttgag aaattactga 300
tacaattcaa aagttatagc acanatagct aagaaagata cttgactaca atctccaatg 360
aaaagctaca cgtacacacc atgaaattga catttatata tacttataaa tttccacgaa 420
ctacttatac cnggctaaaa ttacacagac taattaatta acct 464

<210> 12792
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12792

agcttataat atatcgatac gctcaaaatt aaacatcgaa nactctcgag aaattcaaatt 60
ggccgtaact tttcacacgg atgtccgatt cgggcgcata atatgtcgag aggctcgaaa 120
ttgaacaacg gaagctcttg agacattcaa atggtcataa ctcttcacac ggatgtccga 180
ttcaggcaaa tcacaaatcg agacgtcaa aattgaacaa cggaagctct tgagaaattc 240
aaatggatcat aacatttaac tcggatgtcc aattcaggcg catcacatat agtgacactc 300
gaaattgaac aacggaagct ctcgagacat taaaatggtc ataacttttc aactgatgt 360
ccgattaagg cttataatat atcgattcgc tcgaaaataa acatcggaag ctct 414

<210> 12793
<211> 437
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12793

tgaatcggac atccgtgtga naagttatga ccatttgaat ttcacgagag cttncggtgc 60
tcaatttcga gtgtcactat atgtgatgcg ccacaattgg acattcgagt taaatgttat 120
gaccatttga atttctcaag agcttccgtt gcacaattct gagcgtctcg ttatgtgatt 180
cgtctgaatc ggacatccgt gtganaagtt atgaccatat agatttctca agagcttccg 240
atgttcaatt tcgagcctct cgacatatta tgcgcctgaa tcggacatcc gtgtgaagag 300
ctatgaccat cttgatttct ccagagcttc cgatgctcaa tttcaagcct atagacatat 360
tatgcgcctg aatcggacat ccgtgtgaaa agtatgacct ttgaatatct ccacaacttc 420
catagtaatt tcaacgt 437

<210> 12794

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12794

agctttgatg gtgcgtagcc caccatcttt tcatagtaga gtatcgataa tgtgtctacc 60
atcacgatca tcgtctccct ttccatcatt gggggtacca cctgngccgc cagatccctc 120
caccttttgg gcgtgttctt tgaaagatcc gtcccccttt ntgcaaagt tctgtagttg 180
catcctatcc agaaccatat caaaattgta ctgatactgc ctaacaaagg caaccattan 240
gtccttccaa gaatggactc gggaagattc caagttagtg taccatgtaa cagctacccc 300
agtaagactn tcttgggaagg aatgtattag caattcctca tcttttgcgt attcccccat 360
cttctgacaa tacatcttta gatggttctt gggacaagta gtcccc 406

<210> 12795

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12795

tgcaatgaaa gatattgtgt atttaggagt ctggtgtcaa tctagacaca caaccaagg 60

ccataattca aaataggttaa gatagaaatg atgatagtca ttggcacaaa tattgacttc 120
 tgtaactgct actaagcttg caatggaaga tattgtatat atagtaatga actttccatt 180
 cagtaacaca aatttgttta atttgtacgc tcaaattctat tagcttgtgt gttcaacttg 240
 aaatcttaaa tttctatfff acatctffta tttggcatta tgtaacaaaa gatgcaaaaa 300
 aaagtttact aaacgtttat atcagagatg ggcattgggtt gtttatatat tgcttgtctg 360
 gcacacccca nattctffff tgatntcctt tgtccgtaga ttagagttgt tntatatagt 420
 tctagtttgt tgaggtaaaa tcaatattat acttg 455

<210> 12796
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12796

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 tataaaatgg cattggggggc ttaggggaag gggttcatcc cttttggcaa tcagatttca 120
 cttaaaagta gtgaggataa gaagaaagaa ggagaaaatc aaggccgagg cgcttccgta 180
 atgcttccat gacattntcg taatcaatta cgtgaacgtt cttcgtcatt cttcattcgt 240
 tcttcgtcgt tcgtcaatct tcaaccgggt agtnttttat ttcgaagctt tgaattcatt 300
 ctatgcaccc ttaggggggc attcgtgcat tatatggttt catcttcac tcgtctactt 360
 tcagtattct ttttcttt 378

<210> 12797
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12797

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 tccatctctc ctcttcttct atcccatca acccgtaaag tgtaaagcct ttcacagttg 120
 tgagaggcta aacccatttg tttgaagcct agtggccaaa ctcttctaata gtaatacttt 180
 cctattatct atttaatgca attatggntt ttattgggtct tttttgtgct ttattgttgc 240

tgattgtggt ttgatcaccc atactcatgc attgtttaag aagtaatgca ttggaaaatg 300
 gttattntct aaagaactgg gaaatggcat ctaaataaaa tcatgtctag gaatagagtg 360
 atgctttggt agcctatttc ttgcatcttt aatcttaat 399

<210> 12798
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 12798

tagctttggt gctgaggacc tatataacat gcaccgggtt gtagtatatg gagtctgtta 60
 acggaagaga gaaaatctta cggttttgca tttttcagtt tgggtgttact attcacgtgc 120
 actgttcacg tagcaataaa aatttgtttt ctgcttcaaa ttgcaatttc attttctact 180
 tctgcccttg aattcgttat cttttctgct gattaatgga aggctgagtc tccagtgttg 240
 ctttctcttg gtatacgact aacttttgat agaaatcctt ttccaagctt gtatagttcc 300
 caatttatgg tcattgtgaa gtaaatttgg taaataaatc ttggtttatg gttaatgttg 360
 tctctagaac atttcca 377

<210> 12799
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12799

tcgtgtccaa ggatgacaag gtgcagtaca tgcaaagaga tattacattc cgctaaaact 60
 taaatagtgt atgggcagga tatccagaaa tcatgcatat tgcattgtac ataaagtcac 120
 aaacaagggt actcaagcat gttaatatct gcaatgtcca tcacattnta aacagatcaa 180
 ggaataaagt caagagggtt acagcatcca cagaggcttc agctgcgcct ttgaaatagc 240
 caatagatcc ctcaataagt cttctatatc cttgctctgg agcaattaga tgtggctgat 300
 aaccatccgc ttccataaca acttttttga cattctttaa cgaaagatgg cgattaaatg 360
 ggagctctct taatgcagct ggtaattggg ggtcaaaaac accatatatt ctatccccgc 420
 caggacgtct aatatacaag ttggtactta gtcaaat 457

<210> 12800
 <211> 377
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12800

 agcttctcct tccatggatt attctctagt ggatgacgcc tctctcacc tcttctcctt 60
 tatcttccac tataactcca tggttgaaaa tcaccattga aagacctcat tgaagctcan 120
 agatccagcc tccatagaag cttctcaagg aagcttccat aattntatctt cttacataaa 180
 attacctttn tgtccatgag aatcatntgt aattggtgac catgaagatc tttgtatgct 240
 taaaatattt atgattctca caacanattt tcaagtttct ttggagtctt caatctcctt 300
 aatggaaatt agtttaaaaa ccatccttag ttgttccaaa actggtaaaa aaagacaaaa 360
 ttcaccatgt gagacta 377

<210> 12801
 <211> 391
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12801

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 ctgaaacaag atgtaattat gttctttaca ctattcactc ttatatttgg ggtccaagcc 120
 gagtcacatc ttttggtttc aagtattttg ttacctttat tgatgaatac tctagatgta 180
 cctgngttta tttaatgaaa gatcaatatg aacatttacc tatattcatg tctttcttta 240
 atgaaatcaa gaccagttt ggaaaagtaa ttaagattct tgcgagtgat aatgccaag 300
 aatatttctc ctctaattct tctttggttt aaccacacaa ggcattttac atcaggccac 360
 atgtcctcat acaccacaac aanatagta t 391

<210> 12802
 <211> 427
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12802

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 ctgtgagttt gttggaggac ttaaattcca ttcgcacaca aaacaaattt agaaaggaat 120
 gaagaacttt aagtgagact aaactcatag tcgacctaaa aaaaatcaaa gatcaaggga 180
 tcttaatgga aagccaaaag atagttacag aaacctacac acaacacatt tttagaaagg 240
 gataaagaac ttgtgagact aaactcatat ganagattag cctcataagt gacctanaat 300
 accanagctc ttngatctc acccgagagc caaaagatag ttaccaaacc cttcgcgcta 360
 caagcttagc acgtaacagt gagatcctaa nactataatc ccaaagaaaa tcaagcagac 420
 gtgactc 427

<210> 12803
 <211> 452
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12803

agtatcnttt atgatgaagc agctatgaag tattnttcac tatgtgaggc tagctgcata 60
 aatcanaaga caccattggt ttctatcttc aactaaacct ttgctagtc catttagata 120
 aaatataaac ataaaaaaaa aatccagggt ttcatgtcta ctctagtcac gatgatcagg 180
 ttttgggtta tgaaacacaa ataactctga aattttttga gagaactaaa taagaaaaat 240
 cctaacaata aggggaaaaa aataattaag aaaatcaaga gatgtacaca ttacagatgt 300
 acaagaaagc aggatagtga gaccctaga tcaacaaaaa aaaggatatt tagatttcca 360
 aatgttttta ttatagggtt taggagactc agatttccaa atggttgtgc ccctgatgtt 420
 attcctattg agtaccatgg tcaagtttac aa 452

<210> 12804
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12804

agcttgtaaa gtaaaatact tcttagatag aagtgtgata ttgtaataga aactgcaaga 60
 cacacactaa aggggggggg gttgagtagg gtgtttaccg aagataaaag ctttttgcaa 120

taacacagat agtatgaatc atacaaagat aaacattggt cgtccactga aaataaaaaa 180
 ttatgtagtg aagaacacag taattgtcta gtgacaagta aaaagatctt taaagagttt 240
 caaaataagc acttgggtga aagtgatggt agaaaatata ataagaatac tcgataaaac 300
 aatatggaga gaagtaaaaa cacttggctt atactgattt gctcaacctg agctacatcc 360
 agntctcatt tactcactag taaaggggtgc actattcaag aactgataac aaac 414

<210> 12805
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12805

tgtggaagat aatgcttngg tggatttcgg gcatgtcaga tggctgccaa gcgaacatgt 60
 ccgtgttcct gtgtaggaca tcagcgatac acctatgctc atggctgggtg tcgcaaccta 120
 cccttcgacg agagggcgaa ggcaaaatag ataagccaaa tagttcgtct cccagggaga 180
 atacgagcga agtcaccacc aacgtttatt cgaggaaaat gttagaaaaa ctaaaaaaag 240
 gtccgcaaat ttgaaaaga agggttcaga agttgtttac gcatagggaa ggtattagca 300
 cccacacac ccatcacaag ggacgacaac cttttaattg agtgtgcaaa aacgtgactt 360
 caatattatt tagtttcctt tntatanttt tattntttta gggttgacaa ggggtgtttcc 420
 cttgctccta cgtatcttca ggtgcgatga gaaattcana cctatgtagc tcttta 476

<210> 12806
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12806

agcttgattt gtgagttgat tctagcctta gtttcacttg gttatttctc aactcattta 60
 aagggaaattt tcaatgtaag tgtccgggtg aaacttgctt ttntttatga ttaaccgagg 120
 tcacggcatg aacaatcggg tgaattttac tttaaaggag attatacaag attacaacac 180
 aatgatcga ttgaaattca tttaaacatt gattaagtga gccttaaagg atgtcccctc 240
 cattatgctc agtgtaacac caagtggatg tacgctccac ttgaactaat ccacaagaga 300

tgtactctct cttgttctca gtattacaac ccaagtagat gtacgctcta cttgtaccac 360
aaaggatgta cgctccaatg tgttaagaca aagatatctc anngcggtag tcctttgaaa 420
tc 422

<210> 12807
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12807

tgacttccat ctacaggtaa cagggatcat gaatacttgt gtatttcctc acgaaacacc 60
ttaacatgac tggaaaaggt aaaagtctct ctattagtga caaaacaatg acatgatgca 120
tttacggagc agtttaacga ggcgtgagtg gaagataacc agcccacaat aagactaaca 180
cttgattaac taggaggcaa taattttgaa tcaagaagga tcactaattc agaatcaaca 240
acaaatattc caaatgaatt ctagaaaaaa aaacatgacc acaatgtaca cacatatgga 300
gacgtcaaan atcgcttgat tgggatagaa acatcagtaa tcaaactgtt tgacgtaggc 360
tctcaacaca gagaatgaat tatactcggg cttgcaagta taattgagtt acttgacttt 420
agaacgcaac acaaagaaat ggggtgacca gaactggaag gttagtcaaa a 471

<210> 12808
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12808

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atcctcaagg gtaatcctct ggtcattctc ttctgccatg gtaatggctt taggtaattg 120
agtggcagat tcccttgatg atgggtgaatc angtgataat aagtcggagg aatgagtctc 180
ctcaagaatg gatgcaactg ttctatcttg cagaagtttc cttctcctct cggctcctgtt 240
ccttcgcaat gtagcttcaa tttctaagtc caaaggaact aaattgtgtg tgggagatct 300
atgcatatac aatactaaca gaactgtgga acagacaaat agaaattatg agcgaatatt 360
cacaaaaaca atcaaagaat aacaaataaa gaatagacac ctataaacga gctaacttcc 420

caaataa

427

<210> 12809
<211> 473
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12809

tgtgcatata ggctntaatt tactgctaatt ttggctttgt tttttttgaa acaagatcaa 60
gtggaggagg agaaacatat atacatatcc tttaaaaatg gttaccatgc ttgtcaaaaa 120
tacatatcct tcatacacac tacatTTTgt caaattataa cctgaccata caccatTTTT 180
tgagaaagca acttgagggt attgtggTtc aagtgccta gtatTTTgca tgtgccacat 240
tcaaacagtc gttaaattcc tttttttgtc atcaacatga attttttctc ataattaaag 300
gatagaggaa atctcatggT ctttgatatt gttgccatag taattcattt caacaaggat 360
tgctgttagg gatagTTTgg tgcttgaaga actgngtatt gttgaatttg atttatttcc 420
ttttccctc attgccacac tatcatnntt tgttatgtac tgtcttgtaa cct 473

<210> 12810
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12810

agcttctgct accaganaag tgaccctgtt taagcattaa atgtacacat gaaactcaaa 60
gattcaatgt gagttgtcgg gaccaagaag cttaacatga ataaagacat aaaaaccaca 120
tattgtagag taaaaaaata tttttaagct ggttacctt gaccatattt ataggcaaaa 180
ggatgagggg ttatgtacgt tataaatcaa acaattacac cgttagagat ggggcatatg 240
atgaaatctc caatgattag tttcactaga gtaacaaaag catacatttg aagcatataa 300
tattcctaatt cctaccacaa tatttttagct tcttcaatat cagctgctaa gacaaaatag 360
atattctcgg gtaagaatta agaattctta ccaagaagat agaaatatat aat 413

<210> 12811
<211> 425

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12811

 nggattgatt cagtctaact agggatcaag gtttagtaat ttatgctaca acatacaaca 60
 catatgcatg attgagtaga gaaacatctt tatatgcac agttgggttg ttagaaagac 120
 ccaacacctt tacctactgc tgtcaatcct acttacttgc atttttactg tttttagcct 180
 agacttagtt taattttatt ttaaaccatc aattatcaat gtttctttca acaatgcctt 240
 atttttgaat ttaaccctgt ctaatactag ttccctgagt tcgatactca gattcatctg 300
 tcttaatttt aaatacttga cgatccagtg tgctttccag caaacccaat tttccttana 360
 catatttgta taaagaaaaa ttggaccata aagtaactgt aggggacatc caacacagta 420
 cttat 425

<210> 12812
 <211> 408
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12812

 agctttcatc aaattcaaac gacaataact ttnttctca gatgtctgat tgagaccctg 60
 aatatatcga gacgatcgaa attgaattct gaagctctga gctaattcaa acgacaataa 120
 tgatttgctc ggatgtctga ttgagtcccg taatacatcg agacgctcga aattgaatgt 180
 tgaagctctc agcaaattca aacgacaata actntttact cggatgtctg attgagtccc 240
 gtaaaatata gagacgctca gaattgaatg ttgaagctct cagcaaattc aaacgacaat 300
 aacttttttc ctcagatgtc tgattgagac tcgtaataata tcgagacgat cgaaattgaa 360
 ttctgaagct ctgagctaata tcaaacgaca ataatgattt gctcggat 408

<210> 12813
 <211> 340
 <212> DNA
 <213> Glycine max

 <400> 12813

 tcagaattca atttcgagcg tctcaataga ttacgggact ctatcagaca tccgagcaaa 60

ggaagttaat atggtctctg gtaatcgatt accaatgggtg tgtaatcgat taccaggcct 420

<210> 12816
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12816

agctntataa gcgcgggtct gggagacaaa ggtcaagtgg tcgcgatatg cgaagatgat 60
gttccgagta cattggattt ggtacgacca tgccctctg atttccagct gggaaattgg 120
cgagtggagg aacgccccgg catttacgca atgagcataa tgtaaaccctt tacggttttt 180
aaaagctcta tagttggggc taggctntag agtttttctt tttgttaagg ctctgtgtct 240
tttgtttttg aatttctaāt acgaggacct ttcttcatct gttcctgcgt ctctacccat 300
tctcattcat ttgcatgttc acttcttttt ttgaaacggc agatccgatg acgagtcccc 360
cgaaggctact antacctggg acccgcttat cgacttcgag caa 403

<210> 12817
<211> 384
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12817

tgagatgagg aagtgtcgaa aggtgtaact tctgctctt attgttgacc acagagtgg 60
acctggagat atgtcgtggg ggtcatgaga cttgtggac gtcagggtgn gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag agagaacctg 180
tgatgtacct aaacaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240
agcaaggagg cttgtggagg ctggccagct gtgaactttg tgtaatatgt ggattatggc 300
ctctggtaat cgattaccaa ggggtgcgtaa tcgattacaa ggcttaaaat tgaagacag 360
aggctaagat ggtctctggt aatc 384

<210> 12818
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 12818

agcttgcttc tacactcagg aagcattatt tgccatcaac atgttggtgg aggttttcaa 60
 ttccttgcggt cttctcctct ttttcgatgc ctctatcctt cttcggttgc ctcggtttca 120
 ttgcaggaga aattccttga gcaattcatg caggaagctt atgctttttg tggtcgggac 180
 cgcaagaaat gcctcangta tgatcaccta ggtaatgtn tatccataag tgagttcaat 240
 gatatttaaa attgggtcga tactgtagtc tagtagtggt tgttgtaatg tagtgataa 300
 ttgtgaacc tagaaagaac ataattgttg cctgggggtg attttgtana ttagtggtga 360
 tatatatnt gctgcaatca anttaatgct ntataatgta tcattctttt tacatctgat 420

<210> 12819
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12819

ntgatgcaac atttgagag gttaatgaaa caacgagatg atgcgctcca tgagagggtg 60
 gatcaaatgg agaatagaga tcataatgaa gaagaaagga ggagaagagg gaatgatggt 120
 gttcctagac aaaaccaa at tgatggtatt aaactcaaca ttcctccctt taaaggaaag 180
 aatgatccgg aggcctactt ggagtgggag atgaaaatag agcatgtttt ctcagcaac 240
 aactatgagg aggacaaaaa ggtgaagctt gtcgccatgg agttttccga cgatgctctt 300
 gtgtggtgga acaaactaca aaaggagaga gcaaganata aagagccaat ggttgataga 360
 tgggtagata tganaaggat catgaggaag cggtagtggc cggctagtta ctcaagggat 420
 ttgaaattca agctccaaaa actaacc 447

<210> 12820
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 12820

acgcatgtag ctttggttatt gaagttgggt tctgagtcac caactaatat tttaatgaca 60
 accacagaat ataacttcga tctgatccaa ttaagtcaat tattagtaac aaatttgctt 120

tcaactccag ataaatacgt attatatatc atacggtgaa atgtgtagtc tctgctgcta 180
aatcaactaa ttaataccac ttacgtgtat ggacgtaaag aataattata taataatcta 240
tatggaaact atg 253

<210> 12821
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12821

tgttgacacc ttcncggcc aatctatagg tatgtttcct attgggaact caagaatcct 60
ttgctttgca aatgatctat atgtttcaca ccccaaacat ttgggtaact cattgatatt 120
taatacaaac ttttattatg cagattagca gggatgaagct ccaattatga ttaaaaaaca 180
gcatgaaaaa acatttaaga cactacattt aagttttgtc catgtaatta aactttcata 240
tttgtccctt acattataag caacaatcac tttaatcctg attcttttta agggtaataa 300
tatgtggaca cctttacaga ctatttctct ttatatctct taccctatca catcatatat 360
ctcagctatc atgcctacac ttttctctag gtgtcattta gctcttagat gtccttacat 420
tacaataaga ctaat 435

<210> 12822
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12822

acttgtttta agatgaatat ataaatctta cttatcaacc ttaaaatttg tcatgttgat 60
tntatatata tatatatata tatatatata tatatatata tatatatata tatatatata 120
tatatatata tatatgtcgt gtctttgtgt cctttgtttt gaaattttgt tgcgctctgg 180
tttatccgcy ctggtttcgt gttgtgtctg agacaatgca ttttggtaca aaatcatcca 240
catacaaaat acaggaaacc atctgtccac tctcccatc acacacacac acacacacac 300
ttactntata gccatganat tcggaagaga gtgagaattg acgctcgctt cacagctccc 360
tgtgatggcg cttgagtgat gacactcata gaggtgacta gg 402

<210> 12823
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 12823

tatagaatat ataatattaa taacaatgac aattgaagaa tctatacatg tttcctttgg 60
 tgagtctaatt tccattcttc caaggaagga ttttttagat gatatttcag attccttaga 120
 agatacacat attcatggaa atgactctaa agaaaaagat gaaggaagca ctgaagattc 180
 tcaagataat gaagttagag cacataatga acttccaaga gaatggaaag cctcaagaga 240
 tcatccccctc gacaacatta ttggtgatat atcaaaagggt gtaacaacta gacattctct 300
 taaagattat gccatgatat ggcttttgta tctatgattg aacctaaaaa tatacagcac 360
 ttggttcgct agcaagcggc caaccaccgg gggcagggtgc agatacatga ctgtctctac 420
 cagc 424

<210> 12824
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12824

agcttgagggt ttcaattgct ggaacacaaa gctaccactc tcctcaagaa aaagatgtag 60
 aatctataac caaagactca gaaaaagggg gtcattccga aacatctcct gtggttcttc 120
 aaaaagggtga gaaattagaa gattccaatg caaatgtgtc tcatttagct actgaacctg 180
 atcctccaca gctcaattct agaatcaatc agagaccaaa aagggtcact aaacctcctg 240
 aaaaatatgg ttttgaagac atggctgcct atgcattaca tgcagctgaa gaaatagatt 300
 caaatgaacc tgccacctac aaagaagcta tcaatcatcc tgaagctgan aattggttgt 360
 tagctatgan agagganatt gaatctttat ataagaatca tacttggaaa cttgttgaac 420
 tacctaaa 428

<210> 12825
 <211> 478
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12825

tgtaggatta tggagtgcc gtcacatgtg gtactaggtg gcgatcgggc gatggtgcaa 60
gttgactctc cacatccaca aatcacacat aaatccacca tccccagttg cccaccttca 120
actgagctca cgtactccca cgtagccctt atcctcattc ctctcagcac cgggtcccca 180
tcaaccctc caagcttctt caatatccaa gcaattcaat atccaaacat catgaactac 240
cctaaaccaa gaaaacaggg tagaggcaga naactctgcc caaaaacaca ttccaatacc 300
acagctntcc ttactcaa atccccagtaa cattctcttt gttccgattc gttaaccgtt 360
ggatcgactt gaaaatntta ctggagggtc ctagtatata agtctacatt ntgaccgttt 420
gatctgctag aaaatgtcca gaacccaata tgtactaccc ttttcacaac cagcaata 478

<210> 12826

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12826

agctttcaaa aatattaaat acattntaaa acattccaat aagcattntg gccactggta 60
attgattaca gtccactggta attgattacc agagagtaaa tatctctttt aaaagctttt 120
gagaaaaacc tttggccata acttatgcat catcaatttg gaaacttctt tcaaagactc 180
tagagactaa cttcatcatt tatcttggat ttcttggagt cttgttttgg atcaaacttg 240
agaagtccgt ttctttggca tcatcaaaac atcaagatat ctttgcttct acaccttgct 300
ttgatttata agtggatgga agttggaacc taattggatt gtgtctctga gtcgaccttg 360
gttattccta tactacaaaa ttgttgaaat tcacgtttgt tntgagacga ttcagcattg 420
tcatcac 427

<210> 12827

<211> 447

<212> DNA

<213> Glycine max

<400> 12827

tgccgcccag ctcacccaag cgagcaaggt tgcttctctc ataagcaaca gccttctgga 60
 ggaatcttct ggagggccca agttggcctg gttgctatct gcacccccct ttttactaaa 120
 tgcacctcct tctatctctt ttggtaattc tttttccgta acgttacgaa actttacgaa 180
 tttcgtaacg atacttattt tccttccgca aggttacgaa tccttacgga ttatgtatct 240
 actctttttt agctttcgaa gaagttacga aaacttacgg attgcgcaaa acacctcttt 300
 tcgatttccg tcacattacg gaatttcacg gattgogcaa gcctgcttcc ttttgatttc 360
 tgacacgtct cgggacttca ttcatgtgac aaccaaggat gccaaagtgc ccgaagcgac 420
 caatcaaagg ttgtatatca tcaaata 447

<210> 12828
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 12828
 agcttccatc tctattcact cagaggtcag attcgggcac ataatatgtc gagatgctcg 60
 gaattgaacc actgaagctc tcaagtaatt caaatggtca taactttaca cacagatgtc 120
 cgatcttggc gcatactatg tcgagtagct cgaaattgaa catcagaagc tgtcgagaaa 180
 ttcaaattga catagtattt cacacggatg tcatattcgg gcacataaca tgctgagatg 240
 ctcgtaattg taccacgaaa gctctccagt aacttcaaat ggtcataact tttt 294

<210> 12829
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 12829
 tgaatcggac ctcaagtgtga aatgttatga ccattttaat ttcacgagag cttccgttgt 60
 tcattttcga acgtctctat atgtgatgag ccttaattcta acatccgtgt gaaaagttat 120
 gaccatttga atttctcaag agcttacgtt gttcaattat gagcctctcg acatattatg 180
 cgcccgaatc ggacatccgt ttaaaaagtt aagaccattt gtattttctcg aaagctatct 240
 tgggtcaatt ccgagcatct cgacatatta ttgcccgat tctgaccttc gtgtgaaaag 300
 ttatgaccat ttgaatttct cgagagcttc caatgtttta tttcgagcga ctcgatatat 360

tataagcatg aatcggacct tagtgtgaaa agttatgacc atttgaattt gtcaagagc 419

<210> 12830
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12830

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caggtcgagt cttacatgag ggatctgagg atgaagcttt gatattcagc ctgacgaggg 180
atcgaagggt tagtaattta tgctatagca tagaacacaa gagcacgatt gattagagaa 240
atatatttcc atgcatcagc ttgtttgtta taaagaccca acatttctac ctattgttgt 300
cattntattt accttgcatt ntatagtttt tagcataata gtttatttta aattntgttt 360
gaaattatca tttatacatg ttctctcaac aatgctttga ttctgaactt aattcaggct 420
aacatta 427

<210> 12831
<211> 471
<212> DNA
<213> Glycine max

<400> 12831

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cgaaaaatga tgaccctagg gctgcaaact cgtcaatccc gtgggtatgg cttttgaaag 120
gggggaaaag aagtttttga atgcaaaaac gtccccctt tcatcattct tataatttgg 180
tgtaggggtg gctcgcccag gcaagctcag ctgcccagg cgagctaacc tgcatttttt 240
ttttttttga gaggaacatt aaccatgtcc cctccttctt tatggtttag cgtcttgctt 300
aacttgaact tacttaagtt agagttaggc gttgattact tattttttaa aaaaacaaat 360
agtaagacaa ctgcgaatac aaaggatacg gggctgcctt gcagcgacgt tctctgcttg 420
tctagcgagc agaatagggc aacgatcagt cggtcgtgac ctcaccccca c 471

<210> 12832
<211> 426

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

[illegible]

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

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$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

<400> 12834

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tacaggtttg ctaagcgcac cgcttcatct cactaagtgc accgcttcag tccatccgct 180

aagcgagaaa ggcacacgct aagccaaaat tactaatat gcgctaagcg gtccataatt 240

gcgctaagcg cacgagcacg aacaaggcca cctatttaag ctagaaatca gattttgtga 300

agatagtttg ngctgggatt cagagctntg catgtctaga gattctagag agagaaaggt 360

ccaagttcca gagagttttg ggagattttg ttgtgtgaag atct 404

<210> 12835

<211> 327

<212> DNA

<213> Glycine max

<400> 12835

tctcaaggaa gttgtctcaa tatagcttct caaggaagct atttactcta taaatagaag 60

catgtgtaac actcgttgta actctgatga atgacagtct tgcgagacac aactcatagt 120

tcaacttctc tccctttttt ctcccttcaa ttctgagctc ccttttctct ctttctctcc 180

ctctttcttt tctccattg aagcatcctc tccaagcttc ttatccaagg cacatcttgg 240

tgggtgaagct ccttcttcca tggcgatttc cctagcggat ggcgccgcct cttacctctt 300

ctcctttggc ttgcgctgca tctccat 327

<210> 12836

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12836

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tgaagttcta attcaagatg ttntctttgt tgcattggga taatgcaatc actctatgtc 120

tagcaatgat tntattaaga tgtccctacc tttagattct actaaaaatt atcctctctc 180

gagcgactaa tctctaaaac tgatgcatat aaaccttca atgtatttct actaaggatt 240

accctttttc aagcgccaaa cccctaaaga tgatgcaagg atgaagcata taatacat 300

<210> 12839
 <211> 367
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12839

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 cgctcctttgt cacgggaagc cggaagggtcc atatcacctt cttaattgta cacatggngc 120
 actgcgcccc caaatgcgca agtaagaaga gataattttc cgggctctcg tgtccgtaaa 180
 atgcattcat atcatgcac gcataagcat ctcttcataa catcataatg gacataatcct 240
 gcatttgtcc gttatcatat tccggcctca cattttgcat gagtcatggc atcatcatgc 300
 atatgcgttc aacaaacatt ttgatctgca aaattgcata ccatttgttn tcatgtttgc 360
 tcatcct 367

<210> 12840
 <211> 400
 <212> DNA
 <213> Glycine max

 <400> 12840

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 agaggggaaac tgcccaagtg tcaactccga acgcgactcg accggacgga attccaacgc 120
 gacaaggaac ttccctccga ggccgttgcc ggaattcacc ccgctcccaa tgacgtacaa 180
 agatcttcta ccattccctca tcgccaatca tttggcccg gtaactcccg gaaggggtcct 240
 cgaacccctt tccccgaagg ggtatgacct taatgcaact tgcaagtacc atggaggtgc 300
 ccccgggcat tccatcagaa aatgctcgcg ccttaaatac caaggccaac atctaattgga 360
 tggcagatgg ctgactctcc aagaagatcg gccaatgtga 400

<210> 12841
 <211> 338
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12841

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tttgaatatc ctactttgat gaataggaag cctatggcaa atggagagaa taagaaggag 120
ggaggaaccc atgctatgac tgtcattcct tcatggccaa atttcccacc agctcaacaa 180
taccaatact aagccaatat cagccattct cattaccac caccctatca gccaagaaca 240
cccaatcatc cacanaggcc acccttaa atccacaaa acccgctgc tgcatatcca 300
ataccaaaca ccacccttaa catgaaccaa aataccga 338

<210> 12842
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12842

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gttntgttta ctttttatac cccctgttga cgtgcttaag ccattttact taagtcattt 120
ctcgtttaac ttaaaaataa aataaatttc caccgaacgt ttgaattgta ctatccatta 180
acttcggtta aaataaattc cgaccgttcg gtcatgccgt aaccacgttg gaaatcaaaa 240
agaggtaaaa aataatataa taatcaaaaa gatattttt agtaaaaataa agcggaaaat 300
caagtggaca ttgtctcttt gggatttctc attcttaatc gaattgatta ataactaaag 360
tgaaactaaa ggctaaaaac aattcgtcta gtcgagctcg tccataaaaa ataggctttt 420
gaaagtggc atttcatttt ctactaagt agaatggatc at 462

<210> 12843
<211> 624
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12843

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ctgccacagt catagacgca tgcattagct tgtagtanag taagcatacg tcacaatata 180
tgctagcact gtagcatata gctgctcgtt cggtcagact gactcttaat gngatctata 240
gcgacatctt cagacataa tactgaggca cctagaatac tctgcggtct tacaaggaaa 300

acagatgaat catatgtcat catactacat gtcacaagtc gcgccacgat acaccgtgga 360
 tccaacagtg gatgtggatt tagatatcat ctactcggc tcttctanac actgagacat 420
 gaaatactga gcatcagcat gctggacgct ttgcttgtag actggattta gctaatatcg 480
 tcacacgaag ctgacatgat acacaaacag gcatctcatc tagcaccctt ctgttcccgt 540
 gcgctttcat aatatttgac agtctttacc gtctaccgtg ctatttcgcc gagacagagg 600
 gcatatcgac gacgccacca ctan 624

<210> 12844
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12844

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 gagtcattga tagccaccat catcaaatat taaagagatt acttcagagg tgatcattat 180
 aaaataaaac tgtcaaagag aacattttgt agtgtcacia tgtataaaaa tgctcataca 240
 taacatgccc cagatcacat agaagaaccc acagcataga acaagcaaga aaatggtaga 300
 gctatacagt cctactaaag atagtgaag agatatctaa gagaaagggt aagcacattt 360
 tgaccttaaa actcgtctta cagatagct tcctttattt ccttttcaag agatagagca 420
 acttcttaat gtgcgagaga caattgtttg tac 453

<210> 12845
 <211> 336
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12845

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 ctccctctct ttagtgaaag gaacaaaaga aattatgtgt ctattgtcta acatgtctacc 120
 ctttttcaga aacatggcaa tgtctgcttg ggaattctag atggcactga nataggacta 180
 ggaaatacta acataattgg aggtgagaaa atttcaaaca ccactaaatt ttgaggaaga 240

<213> Glycine max

<400> 12848

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gctacatgat ttccatacac tcaaggagac aattagcgga cgccgccaca tcagcgatac 120
tagatatcga gctcgcattg cgaccgacga ccgtaatacg atctggcctt tgattccaga 180
ctcagggatg cctgccgatc ttgaaacctc gcttatgatg tacagtgct 229

<210> 12849

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12849

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atgatatctc gcgngtcat attgatcggg ggacatcaga ctgctgggtt tggaaaccag 120
aacctaattg ccagttttct acaaggagcg cataccgtat gctactagaa ggagcagctg 180
atcagactgt ggatgatgct ttagaggacc tatggcagct cataatccct ttataagcat 240
caacatttgc ttggcgattg atcaaagaga gactcccaac taaagggaat ttgtggagaa 300
gacgggttca gctgaacgat ttgatgtgcc ctttctgcag tagacaagag gaggaagcct 360
cccaccttgt ttttaactgt ccaagaattc tccccttat 399

<210> 12850

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12850

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acccttgagg agagtaagggt ggtgcaagcc ttgaaggagg aacttgaaag agtgcaagtg 120
tcgcaacgtg cccttttgcg ggcgagcgag gcgaggctca cgggtgcgtt ttccaaagga 180
ggaaagatgc gcggagtcgc caccgacgtt tatttgtgga aaacgtcgga aaaaccgaag 240
gaagccgatc aaaatgaaaa ttctaagttt gggagttgta tttacgcttg aggaaggtat 300

tagcacctct	cacgtttgtc	tcanaggaca	acagcctatt	ntttagaatt	gtggaattgt	360
gttatcttaa	ctcttatttc	tttatatttn	ttgaggtcga	caaaagcggg	gctcttgctc	420
ctacgtaccc	tccatcagag	aggaaatcag	acctacgtag	ttcttcctta	tgcgtg	476

gtcacaaggg acgacagcct ntaatcgagt gtgcataaat gtgac

465

<210> 12853
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12853

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ctgtcaaatt ttgtgcaaca gaaaattgtg tttgtgcaga aaatgttgtg tattgctggt 180
tgtggaaagg gtagtacata ttcggttctg gacattntct agcaaattccc aacggtcaaa 240
atgtagactt atgtactagg gacctccagt aaaattttcg agtcgatcca acggtgaacg 300
aattggaaca aagagaatgt tattgnggta tttgagtaag gaaagctgtg gtattgggtt 360
gtgttttggg cagagttttc tgcctctgcc ctgttntctt gggtctgata atncatgaat 420
gttg 424

<210> 12854
<211> 491
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12854

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agctctagct tcttaaggaa gttttctcaa agaagcttct caaggaagtt ttctcaagaa 120
agcttctcaa ggaagctacc tagtgataa atagaagcat gtgtaacact ttttgtaact 180
ttgatgaatg agagtcttgt gagacacaac tcaaagttta acttctctcc ctttttcttc 240
cttcaatttc gtgctcccc ctctctcttt atctctctct ttcttttctt ccattgaagc 300
atcctctcca agcttcttat ccaaggttca tcttggtggt gaagctcctt cttccatgct 360
tattccttaa tggatggcgc cgcctcttac ctcttctctt ttgtattccg ctgcatctcc 420
atggtggaaa atcaccatta aaggacctca ttgaagctca nagatccagc ctncatagaa 480
gctccacaag c 491

<210> 12855
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12855

agctttaatc tataaaacta gtgaaataaa gcattcatca tataatagtt agatgataag 60
 gttattattg aaaattaaat ttgtaacata tactacttca ttaatcaccg ataaccgtta 120
 tggcttcttt atatatagaa ctagctatat atgggcttgg gtttacagat catttgttta 180
 acccgtagt tatacgggtt tgagtcctg ggttaatggg ccagttagta gacaaactac 240
 tttttgttta aaaaatatta attgctatct tatactttta ttctttaatt aagtatttgc 300
 ataattatta tttggtgttt ggtaatatat gtcgacctcc ttggtagtag ttgaatattt 360
 atgatttctt gttgaaaaag ttaaagatat tgagttctta atgctntatt tgatttgaca 420
 cttgatt 427

<210> 12856
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12856

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 tatgcaagaa gcatatgatc aaatgcagac tccattagcc cgccaaatac cacctgcctt 120
 ggtaagtata atcctatgat tccaattga cttgaatttg tgatctctct ctcctttatc 180
 ctatatcttg ttcttcaagc aggggctaaa ggagctgaag gaatccacca tccaactggc 240
 ttcaagtcac ggatacattg attcccctgt tgatgagact gttttcgatg tggataacga 300
 tgttgatgac cttctgccag ttgaagttaa agaacagcgc ctcagcaatc tgctgcaggc 360
 attgatgggt gcggcttgtg ttgctgctat gcctcttttg aagaagatac caacttcagt 420

<210> 12857
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12857

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actgatttcc ttttatgcat aacaaatttc tttcattcaa ttctcttcat ctttctaaaa 120
gtttttgttc aatactttct ctttcaagaa aagttccttg accaaaaact tgtgctattc 180
tttntcttta ttcttctct cttgtcaaaa gattgaaagg actaaccgcc tgagaattct 240
tttgtttctt ctttctccc tcttaacaaa agatttcaa tgactaacca cttgaaatat 300
cttttgtttc ttacaaaaga tttcaaagga ataaccatct gagatatctt tnttctttt 360
cccttanaca aaagatttca naggactaac cgcttgagat atctt 405

<210> 12858
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12858

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cctggagata tgtcgcgagg gtcaggagac cttgnggacg tcagggtggg tgctattgcc 120
caaaaccaag cttgaccaat cccgaccgaa cccgggcata gtcagtcagt gagaacctgt 180
gacgtaccta aacaggcgag ctctggcag tcaaccaata aaagaataaa gaccacaaag 240
caagaaggct tgtgtggtgg ctggccagct atggatcttg agtgatattt ggaatatggc 300
ctctggtaat caattaccaa ggggtgtgtaa tcgattacaa ggcttanaaa tgaagacaag 360
aagttaagat ggctctagt aatcgattac aagggtgtgt aatcgattac aaggcttaga 420
aatggataca gggagttgag atgacctctg gtaatcgatt accaa 465

<210> 12859
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12859

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atatgatctt aaaaaatttg tggatcaaca tgtttgatt tatctgacaa agtgataaaa 120

tgtaatggtg tgtagttatt tgtagaactc atttaataca atttgtaaag ttaccggatt 180
 agaaagataa tgttctttaga ttattactca agtattatat acaataaaca taatacaaatt 240
 aatcaagatc aagaaaaatg gtcaaattga atgttataga ttaatactat tcaataaatt 300
 taaattttgt ttctcaaattg ttcttacatc taaatgttgt aatgatatg gtgatattaa 360
 ttttgacact caaattcaat gcttgagtga atacttaata aatagagttg ataata 416

<210> 12860
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12860

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 ctggaactgt gagaaagcta ccaaactatg aaggtataat caatgggtctc tctctatggt 120
 ctccttgnga ttttgngatt cttttcatct gtctagtctt ggttgtggct acccaagaaa 180
 ttgggtggag ctcattggctc ttgtggaatg gtgctggcag tctccatcca aaaccgtctc 240
 catcctgaag aatctctgtc acatttaatg gctcagcctc agaanaaaaa aaaaaccata 300
 tatgatgata ttttcttact caaagacaat aaattgaatg atgagaggta actttacaca 360
 actgattttt cgttttcaaa gaagatattc ttatttgtat taacagacac aggttaatat 420
 ttgacactat aatagggttaa atgtcatttt aat 453

<210> 12861
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 12861

ttaagctcat tatctccagc agaagaagag gagaccatgg ccaccgcatg gaccctcca 60
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 aatgcctag cctcggcacg aggcatatca ccaagggtc caccactggc aggatccaac 180
 aaacagcgac tcaatgacgc aaagtccac ataacatag gagaaagaga agctcacaaa 240
 cctggagatg agggcaacta gcgcacaact tcaggaacct ccactaaggg gacggaagcc 300

agaaatagca tgtccgatgg taggagcccc acacgcagag aagaactgct cacaaacacc 360
 ctctaaggac atcccagcag aacatggacc tgcgaccaa gcagataatc aaccgtcag 419

<210> 12862
 <211> 446
 <212> DNA
 <213> Glycine max

<400> 12862

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 tcgcatgtca gcttgtaact ccaaagcadc aaacctttca ccaacaaaag tttgaagacc 120
 atcgaacctg accaaaaatct tttgaagaag agaggaatct tctccaacta ggaagtgcgc 180
 ttcttcatca atgggtttgtg cacctttttt caccgaagag ccatcatgct ctgtacggta 240
 accaaaagat tcaatcacia cggcgccaat taagaaggat ctcttgattg gaagataatg 300
 ttcagaatca agagggatgc taaagtgtcg aacgaagaga gtgactaagt gcggatatgg 360
 aaatggagca tgtaatcgca atgccttatg catgcgacat ccgactaaga gcgccgaatc 420
 aatttggttg agcataccct aatttc 446

<210> 12863
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12863

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 acacaagagc atgatttatt agagaaatat atttctatgc atcagcttat ttgttagaaa 120
 gacccaacat atctacctac tgctgtcatt ntattttacct tgcattntat agtttttagc 180
 acacaagttt agtttaaatt ctgtttgaaa ttatcactta tacatgttct ctcaacaatg 240
 cttegattct gaacttaatt caggctaaca ttangtcctt gtgttcgata ctcggtattca 300
 tccgttntaa ttntaaatac ttgacgaacc agtgcgcttt ccggtgaaaa ctccccaatg 360
 aaatttcctc gagacatana tgcacaaaaa gtaactgaag t 401

<210> 12864
 <211> 453

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12864

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 atggcgctc ctctcacctc ttctcctttg tcttcgcta catctccatg gtggaaagtc 120
 accattaaag gacctcattg aagctcanag atccagctc catagaagcc ccacaagtaa 180
 gcttccatca agtggtaatc agagcacaag agcttcaagt aggtgctcct tanacctcca 240
 ttaattnttt ttctttacct tctcttccat tgttgtttct tcatttttct ccatgtatct 300
 cctcacatgt cttgttctaa atgctgttaa catgattctt tagagtttcc accgattaaa 360
 cttgctatag aagctagatt tgattntcta tnggtgaaat ttcttgttct tgttcttgaa 420
 ccatgaattg tgttgagttt aagttccttt gag 453

<210> 12865
 <211> 348
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12865

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 gttttacctt ttagagcggc caaggaatag gggccgcggg aagtgacaaa acacgaggcg 120
 agacaaacaa cgtacaacgg aagaagcacg tcgttaatga gaagaagcga cggcatcgca 180
 cgagggatac gaacggagaa agggcagaag actccctgca gaccggtgga aagaacttga 240
 aaggcccgtg tggtagaggag gtagaccaga acagaaacat gaatggcctt tgcactagcg 300
 tcgcgccggg cgaccagca gcagcccccc ctcaccccgga agaaaacc 348

<210> 12866
 <211> 247
 <212> DNA
 <213> Glycine max
 <400> 12866

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 ccggcttaca gctcccgacc agcgggttcg gtcgatcttt ggctaagtgc acccgcaaaa 120

acgggcaggc aaatatgaat gagagacggt catgctcgct tttaaggtat gaacatttaa 180
 attcaggagg gccactaagc gaaaggaggc ggaggacata aagcgcttat aaagagactg 240
 atggccc 247

<210> 12867
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12867

tagggaacgg taatttatac gaactcgcac ccaatacggg gtattaagga cttggtgaag 60
 actganaagc tctgtgctta gatgattaaa aaacacacca tcattcgtca gttcacgctg 120
 atctatggca agataataat gacattcgct aagttatagc acggcactag aactcaaaaa 180
 ctttttaagt tccttcatat aatattcatg tatgattata aattgtcctt gaagttcaaa 240
 atatatttaa aaaagtgaat tcactatatt aatattgtcc tcacaagact tattcttata 300
 tagccttggt ctttgagtca cacattctta agatatttcc ttttacacat gttcttctaa 360
 ttagacattt ttaatacatt ctctcttatt 390

<210> 12868
 <211> 178
 <212> DNA
 <213> Glycine max

<400> 12868

cgaatccgag ctcagtaccc agagatcctc tgaggcatct gcagcgtctt ctgctcaaaa 60
 gaccccgagg aaatcttact actcatagac cggaagcgg tgactaatga ctcttatgca 120
 gctttcacat aaagcatata tgatgggcag atcaccaaga tgtctcctc tcctgaca 178

<210> 12869
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12869

tgaggcctgg tgggtgtcgt ggcggnggaa gtaggcttat ttctcactcg ncctcctctt 60

cctctctctc cgccgatctc cctctctcgc gccctcatgc ctctttctct ctcaagggtca 120
gatctcgttt tgattatttg aatctcggtt cctatgatta tcctgtttga tggatacgct 180
attacttatt attattatca ttattatagg aatggactgt gagtggagtg ttgagagttt 240
gaaacttgca atgtcctgat tctaggtggt ggcactcggg tatgtgttct tcgctgcaga 300
tatggacaga aagtcacaac gtgtgggctc tatgtgggct cgggagagtt ctagattgcc 360
catcaaggac ccacacacat tcctgcccgt ttgcctttca actatgggat catttatacg 420
ggacgggaga gatctcagct acat 444

<210> 12870
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12870

agctntagta tggcctccgt gatagaagcc atttgatctt ttaaggccga taggtcggcc 60
ttcatctggt cttgcactcc ctcttcgtta tccatccttc tggatcgagt gttatagggg 120
tgcctttgtg cctttttagt tatggcgagt tccctgaaga aacaaacagt ggtgagtatg 180
ccacaaaaac atgaatatgc taatgaatga tcagagcact tggatccacc tcaaggcctt 240
ttttagataa catgattagt ttcagaactt ctttttataa aaaggaacaa agctnttatc 300
tagccaagat cgtacaaaag gtgttacaac agaacctaac ggtttctaata tatatgggcc 360
atcaaatacta tctgtgttgg cagtaattaa ttagctcgtg aatttccttt ggggctgaac 420
acac 424

<210> 12871
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12871

tgcttgtgga gcttctatga aggctggatc tttgagcttc tatgaggtcc tttaatggtg 60
attntccacc atgaagatgc agcgggaagac aaaggagaag aggtaagagg cggtgccatc 120
cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180

gcttggagag gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggggggag 240
cacgaaattg aaggaagaaa aaggagaga agttgaactt tgagttgtgt ctcacaagac 300
tctcattcat canagttaca acaagtgtta cacatgcttc tatttataga ctangtagct 360
tccttgagaa gctntcttaa gaaaacttcc tttagaaact tctttgagaa aacttccttg 420
agaagctaga gattagttac acacaccct ctcataacta ggctcacctc cttga 475

<210> 12872
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12872

agcttctata taagctgaac cattntatca ataaacacaa gttgagttnt attcagaaaa 60
ttagagttta tctcttttat cttagtgaaga gtgattctcc taaattcttg agtgattcaa 120
gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180
agtgattctt tccttccttt catcttcacc cttgttcttt caaaccacaa ttccagaaaa 240
ttcacctctg cccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300
tgattcttga gcctaaattg aatttcacaa ccagaccttt caccgcgttt tggaatcacc 360
tcatttgag cctgtagct tcagttattg ccaattctat atttctgtcc agccaccact 420
t 421

<210> 12873
<211> 471
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12873

ntcactcgaa tgtccgattc atgcgcata caattcgaga cttctcgaaa ttgaacaacg 60
gaagctcttg atatattcaa atggtcataa cttttcactt gagtgttcga ttcaggcaca 120
tcacatttcc agacgctcga tattgaacaa cgaaagctct cgtatattca tatggtcata 180
acttttcact cggatgtgag attcaggcgc atcgcatctt gagacgctca aatttgaaca 240
acagaagctc tcgagaaatt caaatgggtc taacttttca ctcggatgtg cgatttaggc 300

gcatcacatt tegtgatgct tgaaattgaa caacggaagc tctcgagaaa ttcaaattggt 360
cataacgttt aactcggatg tctgactcan gcgcatacaca tttcaagatg ctcaaaattg 420
aacaacggaa gctctcgaaa aattcanatg gtcataactn ttcacttgag t 471

<210> 12874
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12874

agcttgctca gtcaaaacac aatccttggtg aagttgatgc acaagagaaa ttgacaaatt 60
gagaaagaga cacatgaacc tggttaagctg aagttgatgc accaaacaca aaaccaggaa 120
gtacgaagat catatctaata ccaatgtatc ctaattacac gatactagga atgaaatctt 180
tacaataaca tcaaatgaca tgcatacctac ataagtccat gcaaattgaa tacccttttt 240
tttctaagag taaaaaaatt gaagttacta cagtatatat aaaacatcag aaaattgcaa 300
atgaattaat gatcctctaa tgtatccaac atacaaagtt gctgccataa ttgttctaata 360
tctttgatga aaccacagga gaaatgtact tgtacataat gtaaatcana tntagcaact 420
gcttta 426

<210> 12875
<211> 467
<212> DNA
<213> Glycine max

<400> 12875

taatgttaac aatggtgggc gtgcataaac gtctttgtta atcacaattt ctaccacgat 60
gattccaaat acaccgatgt agataaccta cgttgtatcc tactaagacg gtccgcaaaa 120
taaacgttgt tgtatcagtc acatgccatg cacatgactt ttaaaagtgt caaatattta 180
cgacaatgcc accggttacc ctactacgac gggttttatta cgaccaatgt aaaatgcgcg 240
tcgtaaaagg cttttttttt agtagtggca agttcgggta ggctctcaag tggttgacaa 300
gtctcgttta ggtagtcttt ttggccttgg ttaacaagaa aatcgagtgt taggtacaaa 360
aattggaaag ctccactaca cataatagtg gtattattta tttcaatatt ggtttctgca 420

ttcatggtta gtttgcttat tttgaccgtg tggctctctc catttat

467

<210> 12876
<211> 415
<212> DNA
<213> Glycine max

<400> 12876

agcttcaccg gatgacgctt atcgaaacatt tcctaaccga cgtcatgcag atttcgttca 60
gggattgaat tgagaactcg ttaggcgaca tctgtcgtga agtagcgacc gatatttttc 120
agccgacatt gcacaattct ttttagaaaa gctcgtggt cgataatggt ctttttacgg 180
cagagtaagt tttcttgttt tgggtgttga taaaaaagtt acaatgtact tcggctaggt 240
ttttcgtgcg agttcaaccg acattctgtt tcggtcagga aaacattagc ccacctctgc 300
aataaaaaata tttgctatcc gtcttcatgc atatttcatt caacgattga atagataact 360
caatagccga caacggtcgt gaaatagtcc cgactgatat ctttcagccc gcatt 415

<210> 12877
<211> 460
<212> DNA
<213> Glycine max

<400> 12877

tcacagatg acgccgatcg aacctttcct aaccgacatt atgcaaattt cgttctcgga 60
ttgaattgaa aactcattag ccgacatcgg tcgtgaagta gccccgactg atatttttca 120
gccgacattg agaataattt tttaaaaaaa ctctcactgg cagataatgt tgatttttac 180
ggcagaagaa gttttcttgt tttggtgttt cataaaaaat ttacaatgta tctcggctag 240
gtttttttct gcgagctgaa ccgacctttt gtttcggccg aaactggcat gttccaatta 300
attcggccag gaaaacatta gcccacctcg gcaaaaaaat atttgccaac cgacttcatg 360
catatttcat tcagggattg aatagaaaac tcaatagccg aaaacggtcg tcaaatagcc 420
ccgactgata tttttcagcc gacattgcgc aatatttatt 460

<210> 12878
<211> 241
<212> DNA
<213> Glycine max

<400> 12878

actaggaaaa gacagtaagt ctgtcgtgcg tggaaactga taaaggctaa agagacttca 60

gtttaatact cacaccctac attcctaacg atgacaatta ttcacgtgtg attaattcttt 120

aaaatcacag actaatccta tcatggatct atgagagaat ctacacaaaa atatatgcct 180

tacattctta atccatagtc aaaaatctac attactatgt tagctactta taattaacaa 240

a 241

<210> 12879

<211> 205

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12879

ctcctatcac acatactgcg tgagaacggc tcttcctaga gggtaattat gtgtcttttt 60

gttccttggg acgatgcgtc gagggagcct atgatgtagc agctgaagca cacgattgtc 120

tcacatatag agtgtacgaa tagcaccagc ctttgttntt gtggcggatt gagtgatggg 180

actctcgagt accattgtat tataa 205

<210> 12880

<211> 374

<212> DNA

<213> Glycine max

<400> 12880

tagcttagtt tcataggatc atagtgcatt ctaactgtgt gtacttcggt aactccagtc 60

tccactcgga ctttcagaat agcagagttt cagtatgata aataactaga aagatccaca 120

aatcaatatt gaagggtcat agttattaca accaaagtgg ggaaaattca gattcatcat 180

agatagatta gtaggctaatt tttgcatatc tgacctgctg atgagactgg aacatgataa 240

tggtgtagaa ctccagttgc tggaagatac cttttttgaa cattatcagc atagattcga 300

gcttcataag catgacctgc catcacatac agagttataa tatactgaaa cttcaaggcc 360

tctaatagat ggat 374

<210> 12881

<211> 409

<212> DNA
<213> Glycine max

<400> 12881

tagattgcat gctctggagc gcctcattat ataaggctcc atttcttcaa aaccatattgc 60
atttttgcgc cttcatccct caaaaaagat aaagtgtcga gaacaaagaa tttcttgga 120
tttggttaat gctctagtca ataaatgtgg caagcccaaa cattcccaaa gttgcccaaa 180
ccgtagctgg ttttaggaatt tgcaatctta gtccgaaaag gaatgaaata cataaataaa 240
tcttgcaatg aatgcataca tgcattgttg tgtaaagtct atatttcttg actagtctgt 300
tcagaattgc tagctcgaac gttttaactc taggtctcgc taactggtgt gtattttaat 360
tcttacgata ttggttatag atataaaaata aataactatt tattaaaat 409

<210> 12882
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12882

agcttggatt tccttttagt agggaatcta tccttcttaa gatggagcca aaccagttca 60
ccctcatcaa gaactagctc ttttcttctt ctattgcctt tagttgaata cacctttgtt 120
tggttctcta tttggttctt aacctctca tgcattctct ttacaaattc tgacctagat 180
tccccctctt tatgtataaa agaagtgtcc agtgggaggg gaatgaggtc taacggtgtt 240
aggggattga acccatagac aacctcaaaa ggggactgct tgggtggttct atgaaccccc 300
ctgttgtagg caaattctac atgaggaaga tactcatccc aagacttatg gttgcctttc 360
agaagagccc ttannagggt ggataaagac ctattcacta cctct 405

<210> 12883
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12883

tgcacagntt ttattaggtta ttaattgttc tgcattctta acaatcgtgg ttntaaattg 60
ctgttgctgt tgcgacctt gacattgcgt gaaaatgtgt ttgtcatgat ttggttgag 120

agaatcgtaa aatctttatg ttgcggtcgc aattgtggtt atatatggat catgatttaa 180
aaccatacta acaatcttgc gctttgtgtt tatcaatcga ttaattgatg attgaatgtg 240
aaaattaata gaagtttttg gcaatgtang gcaatgagag gctccaacaa ctcaagaagg 300
ggcttatcaa accaatacga tgggtccatgc aaggcgacaa accccattga caaatgttgg 360
agatgtga 368

<210> 12884
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12884

agcttagttg gcgggcaata taaggaatcc catttccagt ccagaatatg aagagactca 60
atgatgggat ggttcttagt gctagacgga ggaaggacta caaattgagt ggggtggcgg 120
ccgtgatgga gtttcaatag tgaaatatga aacgtgggat gaatcttaga agaagatggt 180
aactggagtt tgtacaggac agggcccacg cgttcgagta tttggaatgg accgtanaat 240
catttggcca acttggtgta agctggcgca natgatgttt ggcgatatgg tctaagacat 300
acatacacc agttgcctac tgtgaattca agactacgac aatgagtggg tgcacagttt 360
tatgt 365

<210> 12885
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12885

ctttcaaagtg ggtaaaaggc tcacgtttac tttcttctac attatattca aacttgtcca 60
aataaataat aaagtcatct cgactcaaag aaagtcatat aagtctcata caattaatat 120
aaaacctata tcctaattgtc acatcctatc agagcgtggg gttcccggtg cctctagcat 180
gaggttcttc atagtcatcc acctattcat ctgctcccc gaacacaagt tcaagatcat 240
cacaggatcc aaacacaaca acacacaggg agtgagttat cacattccta actaatagag 300
aaacaagaca attaaatata catattatat aaatgagata ccacttgctt aaacatagct 360

cacgtaactt caccacttcg tcattcanaa ttcacttttc aattatcaat cacattacac 420
aagaatccca cacttcgatc aagatataat aacacatcaa tt 462

<210> 12886
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12886

agcttcatac gacacgtgac cccccaccca tggccaaaag tagatcacta tattacttct 60
tctttaggca taaagatggg tgtaaccaat catacatata gagtgggtgc attntttcgt 120
tttacatacc aaccaagact aggacctgac tcttgccatc tctcanacca attcgtcttt 180
tanagatttg cactanacaa catatagttt ctttatagcc ctatactcaa gaccatagta 240
aactagacag atttccattt aacattccct gctanggagt gcaaaaaccg gttcataaaa 300
aaaataatcg aactgttnta acanatttga ttttatatct aaatagtcaa actatnttag 360
aaaattgttc caaactagat tgatttaaaa aattgattct ga 402

<210> 12887
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12887

nttagtattc acacacacac agagactcac acacacacac attcaaacac acacacaagc 60
ctaaaacgca gaagctgtcc aaagctaatt agtagtatgg attgccttaa ggtttgtctt 120
tggtggtact ccattttttt ttctttcttag gctgaacttg ttctagtacc ccaactaatta 180
gttttttagat aatcattaat aaaactgggt ttgtttatgt tggttagaac attntaaatt 240
gtgtactagc aagtcatttt caattgtaac attatctaag tccactaaaa aacataactc 300
gtctggtagc tagagttttg tcaattaaat tgagtaacat ggctcgaatt tcctcgtaca 360
tgctagaaaa ttcttagcct gcatacataa cacaagtcac tctgtactct agtctataca 420
t 421

<210> 12888
 <211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12888

agcttatggt aaaatctgng acctagccat ggtagaagtc tccacagagg ccattgcctc 60
 cctcgcccag tattatgata agccactgag gtgcttcacc tttggggact tccaacaatc 120
 acccatggta gaagaatttg aagagatcct acgatgtcct ctatggggaa ggagaccata 180
 cctcttctca gggttctatc ccttatttagc tagaatttct aaagatagtc caaatctcgg 240
 tgcgggaatc agaccacaga cagcaagttg ataatggtgt ggttgggaata ccaagataat 300
 at 302

<210> 12889
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12889

ntggcagatc aaggatattg gacttcattc attgatatat tagcattgtt ggggctcggg 60
 accatactct ttccaaatgt agacggccta gtggatttag caacgatcga cgcttttctt 120
 gcttatcacc acaataagga aagccccgtc attactgatg caatcctccc taggaaggga 180
 caagtcacta gagccatgag caaaaggctc caagaggatt gggcaagagc tgctgataaa 240
 ggccctacgg ttcttatgaa cctcagggtg gatttctgag cccatggggc aaggttgggt 300
 ccaattatct ttgtacatat tatactagga tgtcattata tgtgatcctt gtatttagga 360
 gtccataatg taagtagggg accctagaaa tatacgagtt tntagccctt gtattttacg 420
 gcacttagac tactt 435

<210> 12890
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 12890

tagcttcttt tggacctcga acaagcaact aactcctctt tcagaaccat gctatgtgct 60

cgcgactggt tcctctcttg ccttcgcagc ttgagttcac tattgctacc ccacagagct 120
ccatgaaatt tattccggcc atactcttcc ttgcgagccc tcttgggtctc ttgttcaagg 180
gctcttgca gtagatgcatt ctcttcccgt aaccggcac actccttacg aatgtgtgta 240
gcgccaact tgaacttctc cttggcaagt gtcgccttcc ctaactcgct cttgagagct 300
tggaacttctt cgtcctctta cgggtgctctc aaactttctt cgatgacgac ttttaactat 360
gtgagaccat ctagacctcg atatgaactt t 391

<210> 12891
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12891

tgagctatcg gaagacttgc ttattcattt agtggtgatt tctcttcctt cacagtagtt 60
taatgagatc atttcatatt gtgtgcaaga agaggaaagg ttgaagcaag aaaggactga 120
aagtgttcat gttgtgagta cctctaaaga caagggcaaa agaaaaagga ctgaggagcc 180
caagaatgaa gctgctaata tcatgcttgg cgtgaaaaaa ggtatgtttc ttacttttgg 240
ctgttctgat gtcaatttaa ctttagtacc tagaaacacc tgggtggttag attctagtgt 300
cactactaac taataacatc agtgtttcaa tgcanggttg cctaagctat cggaagccaa 360
tcgattctga aagatggatc tatgttgaag atggtaaadc agtgggaagt gaagctatag 420
ggcactctac attattatta tgtactgcgt tttat 455

<210> 12892
<211> 349
<212> DNA
<213> Glycine max

<400> 12892

agcttgtgtg aatcacatca ctctgcatt ttatctctag catgcattac tttttcttta 60
cccactctc acgttttggt ttttagggaa aaacaccata actaaacgcg ccacaaggca 120
tcctatcgc accagatcca ttttagaac gatgggtgat caagaggaga cacaggaaca 180
gatgacagcc gacatgtcga ctctgaaaga acagatggct tccatgatgg aggccatgtt 240

aggaatgatg cagctcatgg agaaaaacgt ggccaccgct gccgctgtca gttcagctgc 300
 cgaagcagac ccaactctct tggaaccgtg tgccatcctc cctcaacat 349

<210> 12893
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12893

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 atgcacccat atacaatcaa ggtagcttca ttacctagat tatgtacttc caaggtgtat 120
 ttgttattta catcacacac gctccttgg ctgaatttac atacatgcat actcaaagca 180
 ttttggggta ccaaaaactg cacatgcgct catcttggtta tttctaatac ccatacatat 240
 acaaacttca cgatgaatct tgactaccta cacaataagg tgctaccttt catgtttttt 300
 tttcaagtnt ttgctaccta aagccacatg caaattcaag catattttcc tttgctgact 360
 aaaattgtat tcaaattaga aggtatatat ttttttgtaa tatgttctct tcacataaca 420
 tgcaacatat ctatatatat tttttgtgag acat 454

<210> 12894
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12894

agctntacag cagattntag taatgaccca ctaacctaga attaaaataa cttaatgcca 60
 ttaacctagg gaattaaaaa aaacttaatg gctgagtgtg actgaaattg tggcaaccaa 120
 aagtcacccc caacagccaa caagtcagcc accatttggt ctccaaaag gctgatgcct 180
 atgttgccaa ttgggccctt attacaactt gaactaaacc taactaaagc ctttttagtt 240
 gattaacca aaacatattt ttggtcagcc aactttacaa ggattggggc attatttaga 300
 cagactaaac actctaaaat tgaacaaaag tgggtgcatt tagtcctcct ccatttgggc 360
 catgatacaa ctcacacct tggacttttc tccttgaaac ttngngcttg attcaaatag 420
 tat 423

<210> 12895
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12895

tcctctgccg tannaaaaaac attgtaagcc aacaagcgtt ttttaaaaaa attgcgcaat 60
 gtcagctgaa aaatatcagt cgggcctatt tcacgaccgg tgtcagctat tgagttttct 120
 attcaatccc tgaatgaaat atgcatgaag tcggatagca aatatttttt tgccgaggtg 180
 ggctaattgtt ttcttgccg aataaatggg aaaatgccag tttcgccga aacaaaacgt 240
 cggttgagct cgcccaaaaa aacctaggcg acctacattg tacatttttt atgcaacacc 300
 taaacaagaa aacttcctct gccgtaaaaa aaaaacattg taagccagca agcgttttta 360
 aaaaaaattg cgcaatgtca gctgaaaaat atcagtcggg cctatttcac gaccgttgtc 420
 agctatcgag ttttctattc aatccctgaa tgaaatatgc atg 463

<210> 12896
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12896

agctttgatt tcctttgttc cgganacctt tcttttctca tgtgcacca aaccaatct 60
 ccgggttcga agacaacctt ctttctccct ttgttggtt gtttagcata gcttttattt 120
 ttctctcaa ttgatcttt gactctctca tgaagcttct tcacatagtc cgcctttgct 180
 tgaccttctt tatgcttaaa aacagaaaca ttaggcatag gcaaaagatc aagaggagtt 240
 agtgggttaa aaccataaac aacttcaaaa ggagaacaat tagtggtgct atgaacagct 300
 ctattgtaag caaattcaac atggggtaaa caagcttccc aagtttttaa gttcttctc 360
 anaactgtcc taagcaaagt tcccaaagtc ctattaacaa cttccgtttg cccatcg 417

<210> 12897
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 12897

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atccagacgc tcgaaattca gaacataagc tattagaaaa atcaaacgat aatcactttt 120
aactcgggtg tccgatttg tcccgtagta tatcgagacg ctcgaaattg aaaactgaat 180
ctctaagaaa aatcaaacga caataacttt ttactcggat gtccaattga gtcccgtaat 240
atatcaagac gctcgtattt gaaaatagaa gctcttagca aattcaaacg acaataactt 300
tttactcgga tgtccgattg agtcccgtaa tatatcgaga cgctcgtaat tganaaggga 360
agctctaaga aaaatcaaac gacaatgact tttaactcgg atgtcggata gagccccgca 420
naatatcgag atgtcggaaa ttganaacag aagctctgag caaattcaaa cgacaat 477

<210> 12898
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12898

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tagaatcaga aggtatgggc aggagtattc tttatgaaat atatctcgat atgagtcac 120
gaactataga gtatcatcat cgctaagaac aagaaatcac aaacaaccat actatctatg 180
caattaaggc agaacaccat tctacaagca tacctagaat tataagggtc ctataacaag 240
tatataacgt acatataaga agtaagaatt aaacgggttaa taaggatgta ttaaggaatc 300
acaaacttca acaactacac acaaaaataaa gggaggttaag tattcatgtg tttacacatg 360
aagaaagaca cactcatcca aggcataatat atacgggttca naagggtntc acaacactaa 420
tccacacatc aa 432

<210> 12899
<211> 480
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12899

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agtgagggttc acagaactgc aacaaggatc accgagggtt ttgagggtcaa ttggaaaact 120
 atgaaggaga agtggatgcg tgaggccgaa gagacgaaca agatttgcaa gagggaatta 180
 catgtgtgtc caaatgaaag aagtcaagtg agtaatcatc tcacaaaaag gagcaatatt 240
 tttatgtgct gattcaaaat agcttctcac cacaagtcaa gaaagctatg ccaataaggg 300
 tcattatgag cagcatggac attaccctc ttcaagagtt tcatttaatt acctgggtta 360
 ttcattttta tgtataaagt atctattgag tttcacgtaa gaagtttcta ctgtttctat 420
 tttgagttgt aagattactc ctcaataaca agaataacaa gaaagttctg ctatattatg 480

<210> 12900
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12900

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 cgtttactta gtggaagaaa cattttctta aataaattgc acagaataac tatttttagga 180
 aatcattgga gagcccagca atgatgaata acttcttttg gaaatattcc aattaatgct 240
 aactatttta tgtttctgaa tgcattnttt cattaatctt taagagacat ccccatgtgc 300
 attaaacca tagtttgtgc tccatgttgc aaggcctgaa tgaatatgac ggcacgtggg 360
 gcagaagcag tatgttaaatt agcactctca gctagatgat caaagtgac agtgagt 417

<210> 12901
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12901

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 gcagtgctcaa ggacctcaac ccgtagcacc ttctcatct gcaaatgaac ctgccaact 120
 tgtctctaac ccagaaaaag gtaatgacaa aaatttacct aacaatttct atgcagatga 180
 atcttccact ggcaattctg atttgcagaa gcagcacatc cctcctcttc cattcctcc 240

[illegible]

agcttcgatg	aaaatattga	gtaaaaaata	aactaattag	aacaagtagg	agaaatatga	60
ataaaaaatca	aagaagtatt	atTTTTtaaaa	aattattgat	aaaaagcata	aatagaaagt	120
tattttaattt	aaatgtataa	attaattcaa	acgttcattt	cctaattgggt	gaataggtac	180
ttctgaaata	tattgnggcc	ggtaatatag	tccactttca	ttacagtcaa	ttgctagctg	240
ttaattaatt	ataatttttc	ttttatcttt	ttactttgat	ttattcaata	atTTTTtattg	300
gttaacaatt	tcaaatgaat	tcttttaaaaa	aaattgtcat	taatattact	catcttgact	360
cctgagttnt	gataattaca	ttcctactct	tgac			394

taacgatctt	tntacaaatt	taatatTTTTa	aaaaaatata	tttgaattcc	taattaattc	60
ataatcttct	taattcaaaa	cctaagaaat	actatgggtga	tactttcaaa	ctcattactt	120
gtttatcagt	tttacagggt	catctatTTTt	gtagtttttTg	tttaaccattg	ttctctagtc	180
tccacaagag	caccaagata	ctTTTTTTtct	ttntttctgt	ctctcatact	ctcgcacttc	240
aagttTTTTt	tccgtcacac	taggaattgt	gagctntatt	tccccacac	ttaaattttc	300
caaattcccc	actcactggT	taaagatat	gtaagccctt	tttactctt	ttggccggca	360
atggcacatt	acttgacacc	aaatggaatt	tccgtagcag	acattgaacg	catccaacca	420

ctg

423

<210> 12904
<211> 236
<212> DNA
<213> Glycine max

<400> 12904

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acagtatttg tcttttaaag cacaaaagaa cgcaaaaaag atttgttcca gaagaacctt 120
gtcattacgt cttccagcat gatcactccc aacaactaat ggaaagtgct ttgacagaat 180
tgatcctcta aactgatcaa caactttcaa aacagatggt ttcaagccac tcttag 236

<210> 12905
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12905

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aaaagaatta tgcgtccata acacaccatg taccaaagaa ggaaaatggg tgagcaaata 120
ggataaaaacc tacagcatgt aggacattat gtaagtagaa tgaaaaatta tcattacaaa 180
ctacttgatt ttgactnta gcttacgcat tctaggatag gaattactaa tgatttttct 240
gaccagcat tgtttaatca ttaatggctg ccaactctta tgtgtcttga cttctttccc 300
caaatcagt tgtataaaat taacaacata atataccagg aaaccactgc caccaccaca 360
gccacagctg tcattttctt cactagacat gactatagcc atgattgcac catcttcaga 420
g 421

<210> 12906
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12906

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tcgtttttttt acttgtgatg gattttttaac ttattacact gactgatgat aattgataac 120
 agctgctgat gttcattgat gcttattatt cttactatgt aatattttatt aagatccaag 180
 aagcccagat acataatatg atatggttat gatacagaat tacagataga gataccgaca 240
 ttntaaaaaa ttcaagttag gacaaaacca tgatacatta ccaaaaatgc atagcaatag 300
 caacttggag aacacagacc agcaccacgc gaaggagaga gaaccaaag atgagctaga 360
 accaccagca acttcagcaa tgcagat 387

<210> 12907
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12907

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 ttgtgtagcg ttntagatth gttatthtcc atthttataca ccaaaaagta tcatggggac 120
 tttatctctc taaattaatc aatacaactt gactgaaatt aatttaggth taatatggth 180
 ttttgacata gaagatthta gaaaaggaaa aagaaatctt tcagaaattc ttataagtgc 240
 agtctaaaaa atgctattca tttgcatcct tagttaacct gtacgtcatt aataaataat 300
 aaataattat tntaatttaa tcagtcaacg taaagacatt ggatatgcgt tgaaacttht 360
 ccagggctaa gttaaattatt agttatatat catctaatta gttgaattaa tgtatthtcta 420
 gaacatgctt cacaatctaa gccataaat atthtctctta aaact 465

<210> 12908
 <211> 333
 <212> DNA
 <213> Glycine max
 <400> 12908

agcttgacag gctgccatag cagcaacaat atattctgct tcacatgtgg acaaagcaac 60
 tacactctga tacattgagc accaagagat tagtgatgct ccaaaattga aaacataccc 120
 agcagtgctt ttcctatcat ccttatcacc acaccaatct gaatcactat aaccaaacac 180
 ttctccttct atattcttct gactgtgagg atataaaatg ccaagatcca atgttcctth 240

cacatacctc agaatgctct gtgctgccaa gaagtgagga gcctttggtt tctccataaa 300
cctacttatac aaccaaacac aataggcaat atc 333

<210> 12909
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12909

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tgtttacaac tcaataatca tatagccttc agataaactc tgcttaacaa acaacaactg 120
agggtttgtaa gttgtaaaag ttcattcaaa catttattgc atctgagaac acaaggtggg 180
tatatataga gaaaatagct ataaccatct gtaattgatt aaattggcac tgtgatcgat 240
tattacgcga aagtgatcaa tcatatcttc caattaatcg attaaagagt tcttccccaa 300
tgctagacta tataattgat tattttcaca taataatcga ttacattgtc aattcaattg 360
attacagtgt ccttctccaa ttatggaaaa cattcaagaa caattgaact gggatagctc 420
tcttaatcac ttctaggaac actctctaga ctgatgtaat ca 462

<210> 12910
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12910

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acaaagaaga cctctttggt gatgctaaca attcagtgtc tgtgaaagaa gcatatgaag 120
ctgctagact taatgcatcc ctggtggccg catgcctcat tgaaaaagag catttcatat 180
tggttagaaa tccacctggt aaattgtccc attcttgctg tgtaatgttg agttgttttt 240
gtaattttcc ttggtattta cataagcatg ttcagggggc agcagcttgc tccctatatg 300
gtattcttct ccacctttca gaatccatca tcangctaag cgtagaatgg aacttgagtg 360
ggataatgaa tatggtagtg gtagctcana gatcatgaag cttaccatca cttatc 416

<210> 12911

<211> 440
 <212> DNA
 <213> Glycine max

<400> 12911

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acctgctttt tgtgacgaag gctttgggtt gaatgtgtt tgcttcgact gcaactgtacc 120
tgtaagtttt ttttttttgt ttggtttagaa tggactcggg gttttatgcg tttgggtttt 180
tctttcgggt tgcctaact atacgttttt tttttagaa ttaggggtcc gtgaaaaatg 240
agagaggggc tgagatcgcg gacccgattg gggacggctt ctggtggtga aggagttgat 300
cacaagaaaa cggttgctgt gaagagtga gctgttgatt tgggtgatga gggtttggag 360
gtacagaagt caacgattga gaagaagggt gaagttgaat gcggtgtgaa acaagaatgt 420
ggctttgatt tgaatgtgag 440
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<210> 12912
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12912

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agcttccatc accattactt tccttaactn tttaaatagt gatcaagggc tttccatgga 60
ccctaagaga ataaagggtca ttcctgagtg gcctactcca tcaagtataa gggaaatttg 120
gggtttcaat gatttaacaa acttttacia aagggttggt ccatattttt ctatacttgt 180
agcaccactc attgagttgg tgaggaacta tggtctctca tggaaagatg gtcaagaaag 240
gcgttttcag tccttaccct actctaact acccaacatc actaattcaa tgtntaatt 300
cttttaacag gtgttgagaa aagaatccct gagtttcaag aacctctgga tttgaggtca 360
aatcctttnt tacgcattaa gatcaataga 390
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<210> 12913
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12913

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 ttgccagatt gattgtgaag gaatgcattg accgtatccc ggtgagagtg tgatccttaa 120
 attttgagag aaacgactat catttagtac tgatttttgc gtgaatctct gaagtatgga 180
 ctgaatgcat gaaattgagg atgatgaagg ccatgtttga ttgtgatagc catttaacca 240
 caaatctaac catgtgcttg aatgatttat cgcttacacc tagttgagca gaatgaatta 300
 ttgattgatt gaaccctgag cttatatagt gttatctctt gctaccttga ctcangttgt 360
 aggagagcat catccatagg aagtgtggtt canagcaaat ttgtcccana tttgcgggag 420
 taattatc 428

<210> 12914
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 12914
 agcttggaca gtcctcacac tataagccgg tattgtgggg ttaagttagg ccctaagccc 60
 aaattctaag caacatgggt agttaaact ggtaaataca attctagttg catagggaaa 120
 aaggtttaca agttaagaac aaatagggtta atagtactta attgcctata gtatcacata 180
 aagacccaaa cttaccagtc cgagcaggtc tgaagcttga aatatatttc ctgtaatgaa 240
 agtataaaaa atgagtaagg tgagtcggaa agcctttaat atatttacta tagaaggata 300
 ttgaaagggg gcaaacaaac aacataaaaa acataattaa tagcacacca tttagtagag 360
 ttgcggtgtt cataattctt tatc 384

<210> 12915
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12915

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 attactagtt aaccgactac catgacttac acgtatcct tagtggacat taaggacagt 120
 taccaactta attattgtcc tcacttataa gacgagaaga ataatgggaa aaggtaagtc 180
 acattntatt caccatatac aaatacttta ccatcggatt gtcccctcat tggaaaaaga 240

ggtcggtaga agaagaaaaa aactatttca cgtacgatat aggaagattc tagtaagaat 300
aataactaaa ttcaaaatta tgggtcaacc aaagtttaca aatgcctatc cacataaagt 360
tatatttatt agaaccaa atntnttaac acanaagcat taatgtatat taatttatca 420
caatttgtga atttattgat aataacatta gaaattntac attatctaga taaaaacat 479

<210> 12916
<211> 344
<212> DNA
<213> Glycine max

<400> 12916
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tatgcggaag cttgaatcaa gaatctgtct aagtttaatg cagcatccct aggctgcatt 120
aaatctcatt acaggagcat cactacatcc aacatatggg aagtcacata gacaatgggt 180
gggattggag ctttatttgt agaacgccat tgtcttgaca atgaaattga tacggctggg 240
gttcctctca atgaggttca agatatggcg attcaacaac atggacctga tgtgtgggaa 300
tggactgctg accctacacg tcagtatacc acaacaatg cata 344

<210> 12917
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12917

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tgcacctgtc gccagactct gtggtttatg ctctctgccc gaccaccaca tagacctttt 120
cccttctgtg caacaatctg aagtaattga acagcctgaa gcttatgctg caaacatcta 180
caatagacct cctcaacctc agcagcaaaa tcagccacaa cagaacaatt atgacctctc 240
cagcaacagg tacaatcccg ggtggaggaa tcattcccaac cttagatggg cgaatccttc 300
acaacagcaa caacaacaac aacaacctta ttttcaaaat gttgctggcc caagcagacc 360
atacgttcct ccaccaatcc aacaacaaac tgtngaggct cctccacaac cttcccttan 420
agaacttgtg aggcanatga ctatgcanaa catg 454

<210> 12918
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12918

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 attcaatctc aagcttccct ccaatactgc tttgaaacaa tggatcagaa gattcaaagt 120
 atattgcatt tggatcttat gggtagaacc catacagtat gccatacaag tagagaatag 180
 tacgaactat atatgggtgc aattgtttca tagcagtatg tgtgagaagc ttagatgtaa 240
 tttgggtcttt tgggaaaaga ggaaagctag agatnttctt tttatgtgaa agagggaagc 300
 tcgacatttt gttttttctg gtcgaggagg gaattatata catgagggtan ataattgaaa 360
 attccatact taaagacttt ccaaactgat aattattatt ttttatatat ttaca 415

<210> 12919
 <211> 283
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12919

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 tnttgcaaga atttaattat taaaaaactg catatggaga aggatacagt gccctttaan 120
 agatgatata agataataaa anaatcttta aattgcaatt tatcttttaa tatatattaa 180
 cattattaat taaggttatt gaattcaaga atttaagtaa agttgtaaaa gttttgtaaa 240
 tttgatttgt aagagtttac tttgaaaaag atgatggaat tta 283

<210> 12920
 <211> 226
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12920

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 gttcaatctc aagcttccct gcaatactgc tgtgatacaa tggagcagaa gattcaaagt 120

gtattgcatt tggatcttat gggtagaacc catgcagcat gccctacacg gagagaacag 180
gtggaactat atttggtgtc aattggttca taacagtatg tgtgag 226

<210> 12921
<211> 617
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12921

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tcaaattctca nccaccgcac gaccgttgaa cccctgatga acccatctga aatccgacag 120
ccaataagca cacgatcgga aatgaccact tgactcgga ttcgcatgaa cctctttata 180
ctgcacagac attttacntt accacactcc atagatcaca tgcgatattc gagtatatcc 240
aacgccagtg ctctcatttg acagaagcta gtcctatagc aaggaactat aatcaagttg 300
atcaaactcg ccttatcgga aaatcgttac tacggtcact tntacaaaga acgaaatccg 360
cgataatata acgacgatct tctaaagatg gcactctagt catttatata tagcattaaa 420
cattaattaa ctgaggcggt atctgaagct cgagattatc aagtcaagga tgtcagaaca 480
tcttcgcaaa tacttggtat agcaagagtc tactctcgac acaatgatga tgggcaatat 540
acacaatata tgtagagggt gtggaggccg atccgtgtat tcggaatcaa catcaaactt 600
caaaatacag tctgccn 617

<210> 12922
<211> 200
<212> DNA
<213> Glycine max

<400> 12922

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gcactggtaa tcgataacca taacattgta atcgattaca gctctttgaa attaattgga 120
acgttgtaaa ttcaacttgc aaactttttc taatccatta tagtactggt aatccattac 180
aacaatcggg taattgatta 200

<210> 12923

<211> 402
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12923

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 cctggagata tgtcgcgagg gtcangagaa ccttgggacg tcatgtaggg tgctgttgcc 120
 caaaaccaag cttggataat cccgacccaa cccgagctag tcagtctgtg agaacttgtg 180
 acgtacctaa gcaggcgagc tcctgtcagt caaccaataa aagaacaaag tccactaagc 240
 aaggaggctt gtgtggcggc tgaccagcta tatatcttgg gtgttatctg aaaattaccc 300
 tctggtaatc gattaccatt catgggtaat cgattacagg gtttatatat ggagacagga 360
 tgttaagtag cttctggaat cgattaccat ttgtgtgtaa tc 402

<210> 12924
 <211> 424
 <212> DNA
 <213> Glycine max

 <400> 12924

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 aatgtgaatg tatgtataca tgattttgat gatgtcaaag aagaatctaa caaggctgct 120
 tcaaatgata agcatttgc tcaagaatta ttcaagattg cttcaacaaa caaagccttg 180
 cctttaaaca aagtgccttc aagacatgca aggctctggt aatcgattac catgaagtgt 240
 tatcgattac cagaagacag gggtgagaaa tagctattga caaatgtttt gaacttgaat 300
 cttcaacatg taatcgatta ccatatgttt gtaatcgatt accaccaacg aaactttgga 360
 aattcaaatt cacaagtcac aacccttcaa attattactg tgtaattgat tacacaaaca 420
 ttgt 424

<210> 12925
 <211> 398
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12925

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 ggggtgttgaa gagacggcat gggcatctcc ttccttcctt tntgcccctg ttgcccgcgat 120
 tcttttggcg ttcacgtttg tggaggaaac gtaatcaaac tttcctcttt ttaatccaac 180
 ctcgattctt tccccggcaa acaccagatc cgcaaagctg gacggcatgt aaccactag 240
 cttctcatag tagaactctg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300
 catgggagga gctacttgtg ccgccaaatc cctocatgcg tgcgcatatt ctntataggt 360
 atcacctct ntcttaaaca tattctgcag ttgagtac 398

<210> 12926
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12926

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 ctaccattaa gtgacttatt atacgattaa tatatcactt cagaatggca tatacacgcg 180
 atatcttgtg attgtacaga cctctatgt acttgtctat ctaaggatgat cgatatacat 240
 cttggctcat atccctgtgg ctttgtctcg atcatctgcc aggacctcta cattatttta 300
 tgcagctact tatgcatcca ctctctatgt ctagaatagg tagctatggn tagacctaac 360
 acacctccac ttttagtttc aaggagcatg gagctatatt gtgcacatcc atttcattgt 420
 cggn 424

<210> 12927
 <211> 379
 <212> DNA
 <213> Glycine max
 <400> 12927

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 ccattcttca actctttctt caaagcttta ttttcaagtt attgtatcaa tcttctcca 120
 gagcactagt atatctcatt cttttgaata ctactgggtca agaattaaaa tgatattaac 180
 atcctcatta ttccattaaa gacaatagta aagtacagga cttgtaatca ttcttagtca 240

gatatgacta tcaattaaat gccaatatca cagctatcat acccattaga gcttgagtca 300
 tattaaatga cgatgaatct ctactctta gcatcaagtc cttctcttct cctgtctagg 360
 acatgaacat gagctatac 379

<210> 12928
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12928

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 aacagggcaa aggcagaaaa ctctgccaa aacaccaacc aaaatcacag cttttctcac 120
 ttaaagaccc cagtaacaat tccttcgac caattcgta accgttggat cgactccaaa 180
 attttactgg aagtctatag tacataagcc tacattttga cgttgggat ctactancaa 240
 acatccagaa ctcatctgc actactctt ccacaggcaa ccacacacag agcattttct 300
 gcacaaagcc caaatcctgc tgcacctcat ttgacagcaa aattctgcat aagtgcagat 360
 ttcgaaaatc acccttcctc tcatccaatc ttgcccaaat caaatccta 409

<210> 12929
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12929

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 ttctganagat cccaacggtg agatcatgga ccagtgtctt gtgaagttgc agacacaaat 120
 tcgagaagat ccaacggtta atgaaggctt gaaagcggtt gtaccgacga agcttcatgt 180
 agctttttct agaagcttca ttaagaggct gtctccagaa gcttcctcgt ggcttctttg 240
 agaaagcttc ttaagaggct tctttgagaa gctagatcct tatctatnca caccctcta 300
 ttaactaaat taactttctt aaaataatta ccgatggaat aacgcacaga tattcaacct 360
 caaacataat ac 372

<210> 12930
 <211> 348
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12930

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 ccaacaaagg gagaaagaag gttgtcttcg aaccgggaga ttgggtttgg gtgcacatga 120
 taaaagaaag gtttccggaa caaaggaaat catagcttca accaagggga gatggaccat 180
 ttcaagtgct tgaaagaatc aatgacaatg cttacaaagt tgagctgccc ggtgagtata 240
 atgttagttc caccttcaat gtctctgatt tatctctctt tgatgcagat ggagaatcca 300
 gattgaggac anaccttct caagaggag agaatgatga ngacatga 348

<210> 12931
 <211> 280
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12931

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 catattgaga cgcttgaaat tgaacagcgg aagctcttga gaaatagtaa tggtcataac 120
 ttctaactcg gatgtccgat tcangcgact cacatataga gacgcacgag aatttaatgg 180
 tcataactgt tcacactaaa gtcctattca ggcttataat atatcgagat actcgaaatt 240
 aaacatctga agctcttacg aaattcaatc ggcataattt 280

<210> 12932
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12932

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 ncacaagaat caagccaagg ctattgtgca agcaatcaat ggggccaaac acaccaaattg 120
 attataatga tggatggctc aaattctcac aaagggtaaa tcatcacttt caaattgagc 180

tttcataact atcatgacat gtagagaaga atcaaggatt tcaagtcaca caatgtcaag 240
aactcttatt ttcaaaacat ttacgcattt cttgaacata tcctataatt caaagaataa 300
catgcaaagt cgtacgtgca cacaaaattg acccaaaata ttaaactgaa aatccgacga 360
aactaacaac attaacaaat taacacaact aacagattaa c 401

<210> 12933
<211> 295
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 12933

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ttaatttaga gcaaacttat gcacatattt ccttacgaac attcactcgc acaagatatt 120
cttctaacta agaaaaatgc acccatgcac aatcaaagca ccttcgttac ctagattatt 180
tgtatgtact tccaaggtgg actacctaca tcacatgcat tttcttggct aaatntacat 240
acatgcatac tcaaagcatc ttggctacca aaattgcaca cgtcacattc tggta 295

<210> 12934
<211> 382
<212> DNA
<213> Glycine max
<400> 12934

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agcatgaaat tgaaggaaga aaaagggaga gaagttgaat tgtgagttgt gtctcacaag 120
actctcattc atcaaagtta caacaagtgt tacacatgct tctatttata gactaagtag 180
cttccttgag aagctttctt gagaaaactt ccttgagaaa cttctttgag aaaacttcct 240
tgagaagcta gagcttatct acacacaccc ctctcataac taagctcacc tccttgagaa 300
gcttccttga gaaaattcct aaagaagcta gagcttatct acacacacct ctctaatagc 360
taagctcacc ttcttgagat ga 382

<210> 12935
<211> 361
<212> DNA
<213> Glycine max

[illegible]

<210>	12936
<211>	399
<212>	DNA
<213>	Glycine max

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taaatgattc	ttgcccttgc	ttcttacogc	aagcataagt	tatgcttggt	ttttccttgg	120
cctttttcta	atttaagagt	tatttatgga	cctttaaaaa	agaagtagat	ccgtgtggtc	180
cttgacactt	ttggccttct	tggggggagt	agccaaaaaa	aggtgccacc	cgatgctatt	240
gaactaacag	gccttattct	acatccaaaa	ttgatacatn	tttgtacctt	ctcatccttt	300
tctttctcat	catcattttc	cacatacctc	aaccaatcat	gaagggtttt	ttttaagttt	360
tctttcttca	caggcttcct	tgatgaagtt	cctactct			399

<210>	12937
<211>	382
<212>	DNA
<213>	Glycine max

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atgttaaggt acattatgaa tctgcgaata ttattatttc ataaccgaaa gccagtnctt 120

gtgcaacggt aaagttgtgt cttggtgaat tggttgtcat gggttcgaat ccgagacag 180
 cctctttgca tatgcaagga tnaagctgcg tacaatatcc cttctccata tctttgccta 240
 acgaagagcc tcttggcaat ggggtacgac agntttttat tattccataa caatattgca 300
 gccacttaat ttgatcacat atttatcttt atgagaacaa ctaattaagt gataactctt 360
 aacattgtag ttattaatta tg 382

<210> 12938
 <211> 330
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12938

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 gatagtgttg tttttcagat tacacagaac aagttggtac ttagaattat tccccagcaa 120
 caggacatca ttgtttgcag acatgcacaa nggatgagga aagtaactgc gacagaattc 180
 aaaatgcttg taactaactt taatcaatag agtccaagac ttttgaactc caaacttctt 240
 catttgccat ataacaagat gtgttcctgc ttcattgtga gaaaaacaga agcaaccctt 300
 caaaacccta acttctggca accaaaccga 330

<210> 12939
 <211> 533
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12939

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 tctctctcac cncctcagc actaaccgtt ganaccatta atgaccctc cntattgagg 120
 cccttctatt agtgacctat agatactcaa gcttatangg ttgagctcg ctttgagtga 180
 atatgccaa g tatgagtttt gctcattacc tggcgtaagc ctttttctct tattacaggc 240
 tcggctcggc ttacataaaa gtctgacttg gcctaagagc ttatttaaca agtttgctta 300
 aagacgtctt tgaccaatta attggttaat acctagtga atactaacta caaaaaactt 360
 aataaatttt ggataagtaa tgtacacatc caaaaataat ttgttatata aaatcatata 420

tgaataaagg ttgttaaaca caaacgatta tcaaagaata tgagaaataa tataacttaa 480
aatatatgga ttagagatga ttatactaata atagccaata aaaatattaa atn 533

<210> 12940
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12940

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aagatagact ttgcatcccc ttctctcaac catttgagcc tagattgctg ccacaataaa 120
ctacacttca tacctagagg ttagggattt agggggttga ggtggtgat gttttggttc 180
aaggtgtggt ggtgaattgg aggatttgaa tttggttggg attgagttga ttggttatgt 240
tctaggttct cttttatcta cggngggatg ctgggtgttg tgattntgag agattgggtt 300
tttaattctga tatgatttcc cccctcaat 330

<210> 12941
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12941

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ggtaagaaaa ggattgactc tataagtaca atgtttctct cttattttct tatgctttgg 120
acttaagtat tggtagtgtt ctatgttaat tngttagttt tcagaaaaga cttgatgccc 180
cttttatgct tacagtatga gcgaatcaat gtggggctct gattaatcag aatatgactg 240
ttgacaatct ttgattcttt gattcctact aatgatagat gatgcatgtc tggattgatc 300
cagaatcaat actttgtaaa tttgtccttc atatatcaat tc 342

<210> 12942
<211> 319
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12942

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 atatatcgag accctcgata ttgaacaacg gaagccttcg agaaattcga atggttataa 120
 gtttgcacac ggatgttcga ttcggggaca taatatatcg agacgctcaa aattgaacaa 180
 cggaagctct cgagaaattc gaatgggtcat aacatttcac tcggatgttc gattcaggta 240
 cataacttat ctagacgctc gaaattgaac aacggaagct ctcgacaaat tttaatggtc 300
 ataaattttc acacggatg 319

<210> 12943
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12943

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 aatntctcga gagggtttcg tgttcaattt cgagcatcta gatgagttat gtccctgagt 120
 cgaaaatccg tgtgaaaagt tatgaccatt cgtaattctc gagagctttc gcagttcaat 180
 ttcgagcgtc tcgatatatt atgtccccga atcggacatc tgtgtgaaaa cttatgacca 240
 ttcaatatc tcgacagctt ctgttggtca atntcgagcg tctcgatata ttgtgtctcc 300
 gaatcggaca tccgtgtgaa aacttatgac cactaaaatt tgtcgagagc ttgcgttggt 360
 caatttcgag catctccata tataat 386

<210> 12944
 <211> 417
 <212> DNA
 <213> Glycine max
 <400> 12944

agcttctatt ctgaattttt agcatctcga tatactgcgg gacacaatcg aacatccgag 60
 caaaaagtta ttgtcgtttg attttgctcg gagcttctgt tctgtatttc gagcgtctcg 120
 atatattacg ggattcattc ggacattcga gtaaaaagtt attgtcattt gattctgctc 180
 agagcttctg ttctgaattt cgagcgtcta gatatactac gggacacaat cagaaatcca 240
 agtaaaaagt tattgtcggt agattttgct tagagcttct attctgaata tcgaacttct 300

cgatatacaa cgggatacaa tcggacagcc gagtaaaagt tattgtcaat ttattttgct 360
 caaagcttct gttctgaata tcgagcgtct cgatatacta cgagacacaa tcggaca 417

<210> 12945
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12945

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 tctgagcaaa atctaacgac aataactttn tactcggatg tccgattgtg tcctgtagta 120
 tatcaagact ctcgaaattc agaactgaag ctctgagcaa aatcaaata caaaaaaatt 180
 ttactcggat gttcgaatga atcccgatgat atatggagac gctctgattt gaaaactgaa 240
 gctctgagca atatcaaacg acaataactn tntactcgga tgtccgattg tgtcccatag 300
 tatatcgaga ctctcgaaat tcagaacaga agctctgagc aaaatc 346

<210> 12946
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 12946

agcttgccgt ctcaagctcgt tcaggcgagc aagggttgctt cctccagaag caacagcctt 60
 ctggaggaat cttctggagg gcccaagtgg gcctgggttc tatttacacc ccttttttac 120
 taaatgcacc ccccttctat ttttttgtaa ttcttttccg taacgttacg aaactttacg 180
 aatttcataa cgatacttat tttccttccg caaggttacg aatccttacg gattatgtat 240
 ttactctttt ttagcttttcg aagaagttac ggaaactcac ggattgcgca aaaacacatc 300
 ttttcgggtt ccgccacatt acagaatttc acggatcgtg caagcctgct tccttttaat 360
 tactgagacg tctcgggact tcttttattg catgtcatca agtaataatc cccg 414

<210> 12947
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

[illegible]

<210>	12948
<211>	413
<212>	DNA
<213>	Glycine max

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tcttcccact	tcattccact	tctcctaggtt	tgcatagagg	ggaagcacia	ttcggcatat	120
ccaccgattc	tgtttataag	tttccccttc	catctccttt	aataaagttt	cagccttatt	180
ttgaagccca	taagagatgt	aaagcctaatt	caaaacaacc	tgcgtagtga	tgtctggttc	240
aatgcctcga	gccttcatcc	tatcaacaat	ttgatccatt	ccatcaataa	cttttggact	300
ggccttctgt	gtctattaag	atcgaataag	tatgagaaga	acggttgata	ttctcatttt	360
ccatatcaat	aacacatcag	ctatttcctt	cctgtcattc	cttctataca	gaa	413

<210>	12949
<211>	546
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      12949
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5474

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catgagaagc ttgttatgat tatgagggag attaacgtga cacatattgg taaaagtcaa 360
tattatcttc tgtagagcta ggattgagct catgcaaata tgaatctata aactaaatt 420
aagaatcatg cttaaaattg ttgatattag aaagcattga aggggtagca tgacttctaa 480
gattgtccct tgcacatata gtgcatagca tatatgcaca taaatatgat gctaattgat 540
attttg 546

<210> 12950
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12950

tgcttccatc taaaacctcc tattgtaact gaaaggtgat aacttgccat ggaaggctaa 60
agctttgggt gggaatttct gttgatcctt gatgcaaata ttctttacta tctatttaatt 120
gttgttttga tgtgttcact gcttctatct gcacttaatt cttgcatgct tttgggtctga 180
tcatccatct ggggtgtaaag tttggattct tagcattggg aaatgttttg aatccttcaa 240
actggataga gcagggctag ataactgtat tgtctggaca cggagtgtan ggactctagc 300
ttttaatttg gtgtgacctt aatgttagat gagttgagtt ccatcaagtt atggaaagaa 360
aaataagaga gacaagacaa aggacaacaa gagtggaaga tataagtcaa gatg 414

<210> 12951
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12951

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ctctgtgggc aacaataaaa gcaggaagtt tcaccttca acacttcctc atctcaagct 120
tgtaggatta tggngtaccc atcacatgtg gtactangtg gcggtcgggc gatgggtgcac 180
aacaagtttt tcacatccac aaagcgcgca taaaccaccc atccccgtgt gccacacctc 240
atctgagctc acgtactccc acgtagccca tatcctcggt tctctcaaca ccgggtcccc 300

atcaatcctc tcaagcttnc acaacatcca agcaaaacaa cattcanaca gcacaatcta 360
tcacagccaa gaaaaca 377

<210> 12952
<211> 351
<212> DNA
<213> Glycine max

<400> 12952

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caattggatg tgaagaatgc tttcttgctt ggtgacttac attaagcggg gtatatagag 120
caatcacctg tgtttggtgc ttatggggag ttaggcaacg tgtgccgctt aaagaaagtg 180
ttaatggctt gatgcaatca cctagatctt ggtttgagaga ttaaggggtg tggccttgct 240
tttgactgaa gctgagtcaa agagatcata ctgtaattta taacaatact aaccttggca 300
gcatcttact tgtggatatg ttatgatatt gtgaaacaag aagtgatata a 351

<210> 12953
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12953

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ctataaacc acttgcgacc aatatccctc ttccctgcan ggagagaaat caaatcccat 180
gtttcaaatt tttcaagag ctatcatttc ctcttcatt gcttgtctct agccaccatg 240
actaagggca tctaanagag atttatggat agaaacanaa tctagatagc aacaaaggac 300
tttgaggtgg atgacaaatg agcaatagac acatgtgagg anataggata agtatgtgta 360
caggtgtgnt taccttta 378

<210> 12954
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12954

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aacatggaca tgaatattgg agcccttata tcagggtcaga tttcttctat tgctcagagt 180
aactcatcta agctctgatt tctagccttg aatacttccc tatgtagagc tagaggagtt 240
acctctgaca gtctgacctg tgagagcctg agcctggcta ttaactnggc ctacattaag 300
aacaactatt ggaatgtgga tgatcttata gttaacttca gaggggcaag gataccaaga 360
gtccgaccag ctgatgtccc ttctttttcac tctaccagct 400

<210> 12955
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12955

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tatttttatgg ggttggccaa tcatgaatgg ctntcacctt ctctagatca acctgcattc 240
cttgcgagct aacaataaat ccaagagaaa tgacatgggt catacaaaac acacatctat 300
gcacgttaac atacaatttc tcacacctaa gtgggttcaa gatacacctc aaatgcacaa 360
catg 364

<210> 12956
<211> 359
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12956

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ttaccgattg aagaccgaag aacgacgaag aacgacgaag aacgaacgaa gaacggtgaa 180

gaacaatgaa gaaccatcac gaaatcactt acagaaacgt cttggaaaca ttacggaaat 240
gcctcggctt ggattttctt cacgggaaac aattttctct ctaattntga gtgatttctc 300
aataccagaa gggctgaacc ttttccttct tccctccttc ccctatntat aggagaaaa 359

<210> 12957
<211> 285
<212> DNA
<213> Glycine max

<400> 12957
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tgagagcaatt gagcagcctg aagcttatgc tgcaaatatt tacaatagac ctctcaacc 120
tcagcagcaa aatcaaccac agcagagcaa ttatgacctc tccagcaaca gatacaacc 180
tgatggagg aatcacccta acctcagatg gtccagccct cagcaacaac aacagcagtc 240
tgctccttcc tttccaaatg ctgctggccc aaacagacca tacat 285

<210> 12958
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12958
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tagtttcagg gtatcccaaa cgaacgatag gcctaatcga ctgatgccac aagtaaatac 120
ttgcgtccat ttttgtctgt ttctatggat caatgcatgg tgaatgtagc tctggcctac 180
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tccttcgtga gaatatcctg aagaaaacag aaagatggat aaattagcac aacacagttc 300
aagtcctttg taacttgact cacagacaac aacttatgag atanggaggg aacaagtagt 360
gtattcgaaa gcacaaggga tggtgataac atcacaat 398

<210> 12959
<211> 210
<212> DNA
<213> Glycine max

<400> 12959
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tctcatattt acactataaa gtggatccaa ccttgaccca tgggctcata gatctaccct 180
aatgttcattg agaacccttg agccttcttt 210

<210> 12960
<211> 327
<212> DNA
<213> Glycine max

<400> 12960
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tactgtgaca ttcacttacc atatgagtga ttgaatcgta aatcattatt gctatgattc 180
tagagattgt tattataaaa tactcaattc atcatatcgt gatctctgat tcgatgacat 240
tgctaaattc tcttacatta tCGTtatata cctttgcctc tctgacttta cctcttaattg 300
cacaaatgga cagaatatat caatattc 327

<210> 12961
<211> 237
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12961

aattactatt agataccgct aatatataag aatttctgca ttcangaacc taatttcggt 60
tgattcttta atattatata aggaacaaga atcctccttc ttttcaccac atattgggct 120
agtttatgag ctatccctag atggctacaa tgtcttaata ctcaataccc aaagggagaa 180
accaggaatt ccttaataga ttgtagaagc aagccttttc tatagcgcg acacaca 237

<210> 12962
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 12962
 agcttttagc tgcttcaatt gttccccaaa ttctctcttc ccagcaatat cacatggggc 60
 atagacattt acaatgtaca gcttcatatt ttctttaatc catctcccta caaacattag 120
 gaaattcgtg cctttcaccc tcctatctac ctcaaaggat agattattcc acatgcatag 180
 aagacctcca gcagtgtgaa ttgaaggagc actgtcccaa gacacattag catctcccca 240
 tatattctga caagcaagct tagtgataat ttctttcttt gtttcctgta aacaaactaa 300
 gtccacctta tgctttaagt tgagctttcg aatagcagcc cacttcaccc nctacccaag 360
 cctctgcagt tatatgaaag aattatcatt aataccttta tcactntcct tctctgcttc 420
 cat 423

<210> 12963
 <211> 237
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12963

gattggagag gttaatgaaa caacgagatg atgcgctcca tgagaggggtg gatcanatgg 60
 aanatagaaa tcataatgaa gaagaaagga ggagaagagg gaatgatggt gttcctagac 120
 caaacggaat tgatgggtatt aaactcaaca ttctttcctt taaaggaaag aatgatccgg 180
 aggctactt ggagtgggag atgaaaatag agcatgtttt ctcatgcaac aactatg 237

<210> 12964
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 12964

agcttgcgga ctataccttc gaccaaacac ggccgtgttt ctgtctcggc ccggatttaa 60
 agcggggttg agtaccgggt ccgcttcctt aaccgtactg gaggcgggtg ccgtggcttt 120
 atcctctatg gttttctgga gttttaacat gacctccgag atggaagcca tttgatcttt 180
 taaggccgat agatcggcct tcactctgtt ctgcacgccc tcttcattat ccatttttct 240
 ggatcgagtg ttataggggt gccttggtgt tttcttagtt atgatgaaat tcctaaagaa 300

ataaacaatg gtgagtatgc caccaaaaaca tgagtatgca aatggatgat cggagcactn 360
 ggatccaccc caagggttttt agataacgtg atgagtcag aacttctcat tntataagta 420
 gaaca 425

<210> 12965
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12965

tcgtcttaca gatagcanan aggtttatac ggataaccac tcgtgtatgt cgcgccgact 60
 gtgtgactca naagtcagta tgacagatct tgtgagcacg gaagatgacg taaatctccg 120
 cgtctcaacg ggcttgctcg cgcgattga cgaatggcgc angagacgac gttagtctct 180
 gcgtgctatc aggtttttcg tcttacagat agcaaaaagg tttatacgga taaccactcg 240
 ggtatctccg cccgtcagcg tgactcaaaa gtcagtatga cagagcttgt tagcgcggaa 300
 gatgacgtat atctccgcgt gtcaacgggc tt 332

<210> 12966
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12966

agcttagcac attggttcgt taagcgacat gccttgagaa accaaacgtc tctgagttcg 60
 cttaaggcga catttcgcta agcgagagag tcgaatatag cttagtgaag tgtaacatca 120
 atacactcac acgtgcccac agcatttcac ataaacattc ccttttatct ctcttattca 180
 aaatctctca atcttacatc tgcacgcccc agcattttct taccgcatta tctcagtcaa 240
 accanagctt caacgatata agtaagttcc ctactacgtt ttttctgcta tttttctgaa 300
 ctntaggtta gacaacctta aatctagctc taagaattat aggatattaa tattttttaga 360
 agtagttaga gtttaggact ctgtgtaggt tgtcttgtgt aaaatatgtt gagaac 416

<210> 12967
 <211> 372
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12967

tactatccgt ttcagacatt cttctgataa attcataagc aagatccagt cttccacact 60
 ttgcatacat gtctgtgatg gcagatccca cattaactat attctccaat ggtttcttta 120
 gaatatcaca atgcaactcc ttccctaatt tcagagcagc caaagcagca caagctggca 180
 aaacactagc catgggttagg gaattaggca ccattccctc ttgaattaac cacctaaaag 240
 tgggttatagc atcgatatcc agcccatgaa gcacataacc tgagatcata gctgtgcana 300
 ctgcaacatc aaccaaagta ttctgctgaa aatcttgctg gccatctcca catctcctcc 360
 cttgaagtat at 372

<210> 12968

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12968

agctttggga gtttgtcttg ccttgatttt ttttcttta tcattagggt cttgtttttg 60
 ttctggggtt gaactcaact tgcaatgcga cgggtgctagt taaaaaaaaat gtaaactctgt 120
 tgaagagcta attgaaaatc aaaattgaaa aacaaataaa aatatttatt atattaaaaa 180
 aacataaatc atttaataaa aaaaacctat atttatcgct cttttcgaaa gagtttacgt 240
 agggatagtt ggacagtcta aataagttaa taataataaa tgatagaata gattcaagtt 300
 gtgaccatga ccgtgagaaa tgtcaagttt gactgctcta gcatttaata aaagtaagat 360
 gccttanaat ttngngctgaa tattcaacac anaccaataa tag 403

<210> 12969

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 12969

gccgagttga gaacaactta atgtgttcca ttagcttctc aggacgatat cttgcataca 60
 gaactcccaa cttagtanag atacccatat gtgcacgctc caatcctaac ccactctcca 120

actagaggaa cacttattat gaaatatatg agtgcacat

400

<210> 12972
<211> 401
<212> DNA
<213> Glycine max

<400> 12972

ttcttctaaa tcgcacttgt caatctttat gcccgtgaa tgcatttcaa tcccctttcc 60
ctctcacgta cctttcaagg gtcaaagcta cccctcgatg ttctacgcat gtgcgtgctg 120
gaataaataa tgatgttggc taaaatttat tttggcttaa gtctttcaac tttcatcagt 180
taattcactg atcttggttg ttatactttt aaaacaatga ttttagttct tgcattgtatc 240
tttttaatat atgaattaga tttatgtgcc ctgtcaatct aaaagacata tttgagtgc 300
ttcccgttta ccttccttca aggatcaaaa actataatgt ttcttgtaac aacagcaccc 360
cttgtgcata tttatatatt atatcattgc tgattaaaaa t 401

<210> 12973
<211> 151
<212> DNA
<213> Glycine max

<400> 12973

ttactcgcat gtgcgtcacc tggaaatatc taagagaaga aagctctata agattattta 60
tgtttgatta ttaatatgtg tgcagatttc aaacatacat attactggtg atgacatact 120
tattggtgaa tatatcaatg tatattgggc t 151

<210> 12974
<211> 412
<212> DNA
<213> Glycine max

<400> 12974

agcttggttct tagcttcctg aacctgaagc attgcaacaa aaccaatctt aacatcaatc 60
tacctcaaag actaaaatga agtgacaact tgttgaaaat aacaataaaa tatatgaaga 120
tgtcaatgta atagtaatat gcaccatcca tatccctcaa ccctttatag caaaactaga 180
gtgttattac acacggaaac aactcgagtg aacaagaaac atttgatggt aaattattgg 240

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 12977

 atgatgacat ctctgaaatc aagaaacaca cacacacaca ctntntncta gtcgatcact 60
 cacatanatt tccattcttc ccctttgttt ttgagtttat gcttcatttg aaatttagct 120
 aattacttat gtgagttctt gatttattcc ctatatctct cccctttgg catcaacaaa 180
 aagccaaagt gtgtaacaag gtattgacac acatatacta ttaatcattc acaaggcata 240
 cattgaagaa tataaaccaa tcatgaagca tgatacatga atagatcaaa tatataacaa 300
 ccacatagtc atataatata atgcataatt gttcattcaa accatgcata taaagaaata 360
 ctatattatc c 371

<210> 12978
 <211> 384
 <212> DNA
 <213> Glycine max

 <400> 12978

 ttcttctaga ttgagatcaa cttgatgttc tatgcttctt gaaggtggca gtccatgagg 60
 aatctccttg ggaaagacat ctttaaattc ctgcaataag ggttgaacac taggagaaac 120
 ataaatagtt aactgattag aattatcact ctctctctct tgtgtatcac tcttttcttc 180
 ggggtgatca ctcttctttt tcatattcct ttgtgggtgcc tcaactatctt ctttctcttg 240
 gtctctcttt tctctcattc tgatttggtc atcacacact tttctatgtg atagaggctt 300
 aagagtaaac gacgaagatt tggctattcg tctgtaaggc tcttctttgt tacgggttaa 360
 caaacgttgc atttgtgtag tcca 384

<210> 12979
 <211> 181
 <212> DNA
 <213> Glycine max

 <400> 12979

 atggagaata gagatcatatc tgaagaacaa aggacgagaa tagggaatga tgggtgttct 60
 agacaaaacc gaattgatgg tattatactc aacattcctc catttaaagg aaagaatgat 120

ccggaggcct acttggagtg ggagatgaaa atagagcatg ttttctcatg ctacaactat 180
g 181

<210> 12980
<211> 386
<212> DNA
<213> Glycine max

<400> 12980

atcttgcatt tgggaattgcg aaagccccac tccatcatta ggattagtag ctgacatctc 60
aaacaaacaa atcaaacgta ataagacaat tatagttggt gtttgaatac ctcaccact 120
caagtgtatc acacaattat ggcttttctc taatgaaaca ctcttgcctt ttaccactct 180
aattcccctt gagttcttag gcaattcaag agattatggc cacaacaaag aacaattcac 240
caatatgtgt aaggttaaggc tagagagaca aggaaaagg taaccaagaa aaaggctaac 300
aatgttttta ggacagatg aaggaaataa aattcagaat ttaggaattc aagtaacaat 360
ccttcatgca accaatatat tacctt 386

<210> 12981
<211> 368
<212> DNA
<213> Glycine max

<400> 12981

cgaaattgat caacagaagc tctcgagaaa ttcatatggt cataatttgt tacacggaag 60
tccgattcat gcgcataata tgccgagacg ctcataaatg agcaacggaa gctctcgaga 120
aattcaaag gtcataacat atcacacgga ggtccgattc cggcggatag tatatcgaga 180
agctcggaat tgcacgacga aagctctcga gaaattcaaa tggtcataac ttttaaaacg 240
gaagtaagat tcaggtgcat aatatatcca gaaagttgaa attgaaccac ggaagctgtc 300
gatatatcca aatggtcata acttatcaca cggaagatcg attcatgcgc ataatatatc 360
gagacgct 368

<210> 12982
<211> 406
<212> DNA
<213> Glycine max

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

tggaatatat ttgagtttag aatgctgaac tngatcatc catttctatt ttctagtta 360
gttattaatt catgaggctg tggtaaaact gggttacctt a 401

<210> 12985
<211> 283
<212> DNA
<213> Glycine max

<400> 12985

gatgccctc cgacagaaaa attgcttata ttgagacatc attctgctac tggatgcct 60
tggatgaaaa ccagggcact accaagctat ggccgggtctc caacaaaaat aggatgaaat 120
atcgaggctt atgttgatga catggctgtc aagtcttata gcatgacca acacatcaca 180
gtcttggaat atgtgttcag agagattcgc aagtataaca tgcgcctcaa cactaataaa 240
tacacatttt tgggttgaag ggcaaaaagt ttctaagctt cat 283

<210> 12986
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12986

agctttgaat gcactattca atggagttga caagaacatc ttcagactga tcaacacttg 60
cacagtggcc aaagatgcat gggagatcct gaaaatcact catgaaggaa cctccaaagt 120
aaagatgtcc agattgcaac tcttggttac aaaattcgaa aatctgaaga tgaaggagga 180
agagtgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
gggagagagg ataacagatg anaagctggt gagaaagatc ctcagatcct tgcctaagag 300
atttgacatg aaagtcactg caatagagga ggcccaagac atttgcaaca tgagagttga 360
tgaactcatt gggtctcttc aaacctttga gct 393

<210> 12987
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12987

tgctaatcca tggaaactcc taatatctcc cacactntnn tgggtgggcc attctttgat 60
 ggccttgatt ntctcaaggt ccacttggac cccatttcta ccaactacaa accctaagaa 120
 aactatatta tctacacaaa aggtacactt ctctatattt gcatagaggg tgtttttcct 180
 aaggactgaa agaacttgcc tgagatgtcc taagtgatca tctangctcc tactctacac 240
 taaaatatca tcaaaataaa taactacaaa tctacctatg aaatccctta agacatgatg 300
 cataagcctc ataaagggtgc ttggtgcatt agtgagccca aaaggcatca ctagccattc 360
 atacaaacca atcttgggtct tgaaagcggg tntccactca tca 403

<210> 12988
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12988

agcttttgat ttaataacag atgaaatagt tgctctgatg aatttgtgga cctcatgggc 60
 ccaatttcta gatgagtgca ttaccatat ttctgccag tcccagcaat attttgccta 120
 taataaactc tgtattgctt cctaaanttg gaccactgta tatcattnta tctccaaaaa 180
 ccttgtaatc tggtaccttt gaccagttaa tatttaaaat taaaataaat ttggtattag 240
 ttgcaattgc aaccattgct tggctagagg tctgcatttc actcgacctt taattacttg 300
 gatgtgtttt ctactgctgg ttcttattnt aaattagtgc ttgttgggtg atgtttaaga 360
 atgcttcgct tatttattgg tgtttgaata tgaacaggag caacctcttt ccttttact 420
 g 421

<210> 12989
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12989

tctccaaagc atttctagca taagaaaata aattaaataa gcttctccgt aggctaaaat 60
 tagcttatgc ataagttaaa agtgtttgtg aacatcanag aggaggtcat caatattatg 120
 gagttattct gtcttttcaa aagcattctt ttgcaatttc tctacctgac ttaatctcct 180

tactccctgn gtttctttnt tctgtatfff ctcctgctt ctctgtccct aatgtccaga 240
 anattgccat gatagatact tttgttgtgc tcatggaatc acacttattt tacagggtgaa 300
 aaatccaacc gcaagaattg aacatgaagc tagtacatcc aaaattggag aagaatcaat 360
 tggtttatfff caacanaggg gaatagacta t 391

<210> 12990
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 12990
 agcttctcat thtagctacc tattctatfff gtagaagcat gtgtaatact tggtgtaact 60
 ttgatgaatg aaagtattat gagacacact tcataggtcc acttctctcc ctctcttatt 120
 ccttcaatff agagctcccc cttctctctt tctttgtctg cattaaagca tcctttttaa 180
 gcttcttate caaggcatat tcttggtggt gaagctcctt cttccatggc ttattcccta 240
 gtggatgacg cctcctctca cctcttctgc tttatctacc ggtgcatctc catgggtggaa 300
 aatcaccatt gaaggacctc attgatgctc atagatccag cctccataga agctccacaa 360
 gcaagcttcc atcaagtggg tatctgagca caggagcgctc aagta 405

<210> 12991
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12991

tcacatacca gatcaacagc tttctttaca atagcctcaa gttccacaga ccnctctccc 60
 attgtctgaa gctgcttaat cttctgctct cttgccagca aagacaatat gcacttttga 120
 gctgagcaca attagaaccc ttataatgta gattgattag caacaaaata caagatatgc 180
 caatgcccc caacatattg tagctaagat aataaaacaa ctaatatcta aaactaaaga 240
 tagagataaa cattggcact ntcttagtta catagtgact ctaaaccatt gggtatgta 300
 tgagcataca agaaattacc tctcagacgt acataatgct tccaaacctc aaacactct 359

<210> 12992

aactatttcg tcttgaggat aacaacgtgg cgctatacgg tgggtgactt ctgcatcaaa 120
catgtaggct cttcatacca gagattgatg gaccacatgt tcatatagca catcaaacga 180
aacatcgagg tctatgtcaa cgacatgggt gtcaagtccc aagcatagtt caacacatgg 240
cagacctaga agaggctcttc aaagaacttc cgaaatatga catgtgcca tgatgtgcca 300
tcattgtctc ctatttctta accctttttg tcaccattct aattaccta 349

<210> 12995
<211> 310
<212> DNA
<213> Glycine max

<400> 12995
agaccctcgt ggagggtacag catcaagaag aacgtggaac atcattctac aagctacgag 60
tgggtgatgta agcatactat aggctggttag gattgttagt tagctgttac gtaactaact 120
acatgtataa aagccatgca cgaaccctg aaagggatta tggaaataat attgtcattc 180
tgcgcttaga ctttccttcc ttctctctct cttcacctat ctctcttaga gtattcagtc 240
tcgatgaaag ctacctctaa cagaaaatct caaacatatt attacgtttc caacattaga 300
tgttactacc 310

<210> 12996
<211> 184
<212> DNA
<213> Glycine max

<400> 12996
agcttttcgat ttaatatctt atgaaatagt cgctctgatg aattcgtgga cctcatggtc 60
cccatatccc cacaacagct ggtacaatct ttctgccag acccaccgat atttcggcta 120
taatacacc tgagttgctt cctaaatttg gaccactgta tattcattta tctccaaaaa 180
cctt 184

<210> 12997
<211> 591
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 12997

gcacactcac agcactcgtc tttactctct gttgtttatc ctgtgcgaaa gtcagacngc 60
 aacgnactta tactcgcttc tccctcgtnc nncnacgcaa gccgtgcgcc attgaagccc 120
 atcgtttgag cgcattatag atactacagc tcgctaaaca cgggaacata ccaaatancc 180
 cacactatta tggcgagggc ctattccttg atgggtcttg aatgtctcat ggagcactat 240
 ggaccgcgac tctctatcaa catacaacac ctctatagaa tgacgtaata tcctcctaca 300
 cacaaacagg accactcttc tctaataat tgcgctaaga gcggcgatc tcccttaacg 360
 actcgagaag agcttgctct gactatgttc ttaagagatc aatctaggct cctgactgta 420
 cactaaaatt tcatacaaac aaataactac agatctacct atgagaacc ttaagacacg 480
 atgcataatc ctcacagagg tgcttgagc actcatgaga ccacaaggga tcactaagca 540
 ttcatagacc ctatacgtgg tctgagagcg gcttagcact ggtaccgctc g 591

<210> 12998
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 12998

agcttctaga taaaactaca tgaagctgcc tcggtaaaaa tgctgcgag cctttgttca 60
 ccgttgatc ttctcgaaat ttggtttgca acttcacaag acacttgctc atgatctgac 120
 cgttggatc tttgagaaga tgtctgaagt gttctagaag cctcttaatg aagcttctag 180
 aggaagcctc ttaatgaagc ttctagagaa aactacatgg agttgcctcg gtaaaaatac 240
 tgcccagcct tcgttcaccg ttggatcttc tctacatttg gtttgcaact tcacaagaca 300
 cttgtccatg atctgaccgt tgggatcttt gagaagatgt ctggattgtg ctagaagctt 360
 ccgttcccga gagcatctct tatttta 386

<210> 12999
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 12999

tcataacta cttgtttcca agggaaattc tataaacaga cctcccatct ttaatggagt 60

gggttaccac tactggagaa cccgcatgca aatctttata gaggcaatag atttaaatat 120
 ttgggaagcc atagaacaag gaccttatgt tccctctata atagccggaa gtgcaacaat 180
 agaaaaacct atagcagatt ggactgagga agaaagaaga ttagtacaat ataatttaaa 240
 ggccaaaaat attattacat ctgccttagg aatagatgaa tactttanng gttcaaattg 300
 tanaagtgt aacgatatgt gggatacact acaagtaaca catgaaggca caacatat 358

<210> 13000
 <211> 100
 <212> DNA
 <213> Glycine max

<400> 13000

tcacacgatt atatcactta atcaggcgta ctaacaggcg atcaatggca ccattatctg 60
 ccgtaataga atacaccacg ccctgtcctc attgattatg 100

<210> 13001
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13001

atcttgcctt tttaacctga aattgagaga naatgattat taaacacata aaatgagaat 60
 acttaatat tattacctat actcaacaga aaatacttat aacactacaa aataaccata 120
 aattacgaga gtttgatata atttatacaa gttttatata taaaagttag tcattttcac 180
 caactaatag agaccaacca cacataaaga gcaagtgtgc aatagacaat tcttacattt 240
 ctcttcttgc atctcaagct gaacgtatca tatgcatcga ccagaacaac gatggtcacg 300
 ctttccttgc ggtgatgata agcaagatag gcattgatgg catctaagtc cactagcccg 360
 tttaacatttg gaaatagtat agtcccaaca ccaacaagct aatat 405

<210> 13002
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13002

ctagagaatg	tgagccanac	atgcctaagt	tagtttaggc	ttatgatggg	ataggttaaa	60
agtgatggta	atttcttttag	agaattgtta	agagatggta	aattgtaagt	cgagttataa	120
ccttccagct	aaggaaatta	tgcactatct	attggcgggc	tggcattgtc	taaaataaga	180
ccgtttactc	taaggagggg	agtctatatt	aagatggtgt	gatccgtgta	taaccagga	240
taaccaagat	gtaccaattc	tcaactaact	actaagcttt	tgtattacat	cgtgtaacta	300
gttcacttat	gcattcgtaa	tgtctaattg	tngacttcta	gtgtttcctt	gattttgggg	360
tgtcagcatg	atgttgtgat	gt				382

tcanattata gntgtctgtg aatatgggtgc agctctatctt gtcgggtcacg aggaattcca 300
gtgtctaaat ttgaaactat aactataact ataacctctc aat 343

<210> 13005
<211> 378
<212> DNA
<213> Glycine max

<400> 13005

tgcttcccc tcatgatcac tcttgccctt tcatacactg ttttggttac attgaaggca 60
tattcataca ccctttttaca aaacaaagaa agtcagctga gtgtggaaat ggcttttct 120
ttgaaggcaa tttccgacca cactgcagtt aagggttctt ttattttttt ttttttttct 180
tggctcagcc aaaggagaat atcattaata ggtaccagaa gtagccagat aatcacaaaa 240
ctcatgataa gattcatggt ccagatata gtaattatac taacaataga aactatccta 300
agtataccct gcaatcccac catgcactga atgaacaaat tattaacaca acaaagccaa 360
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<210> 13006
<211> 297
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13006

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ccctttttca aagcgctttt caatntcaac aaggaattct tcaccactag ttatatcatc 180
tcaaacaatg ccccgaaaga cctcaagaat gtcatgctta atgatcataa gactcatgcg 240
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<210> 13007
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 13007

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 tagtatctag ccattgggac agccagtcac cagaaagaag gaacctatcc aatttgctca 180
 tgacagtccc attgngtcta caccatgtga aatatctccc aacagaccta acctcctcaa 240
 cctccatata tganatccaa gaattaaact cagagatgct agtaagtttt atcatacttc 300
 atcttgctct tacagtngtt tttatcagca taggacacac ccagggtctct agcaatctcc 360
 ctatgaagat cctcctcatt ctcanaataa ctattattga 400

<210> 13008
 <211> 349
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13008

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 agtttagaaa ttgtaggctc atcttaagaa agaaaaagaa acacaactca catggagcca 180
 gtcaatacag caaatattac agtcaaaaacc ttgccttcag tatatccttt ctctattatc 240
 attgttgcac caaaccatac agccagacca taactgcaga taaaaacaaa gtagagcaaa 300
 ccatatccca naccagaggc tagtgccctc tgcactccag tcttatatg 349

<210> 13009
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13009

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 gctgtgcatt ntttatttcc gctntacttt tatctaagtt attgtttctg ttctttactt 180
 tctcataact tagtagtaaa gccttattga atctagtaac attaagaagg attaattttt 240
 aattagtcaa gacacattca taattaattc aaccctcctt tcttaattat tccgaggcca 300

cttgatccaa cacgaattat ggaggaggaa agaacaagca tagttaggtt ccttcgtggg 360
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<210> 13010
 <211> 325
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 13010

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 ttgttctaaa tgttgtaaac atgattcttt agagtttcca ccgattaaac ttgctataga 180
 agttagattt gattntctat ggttcaaatt tcttggtcctt gttcttgaac catgaattgt 240
 gttgagttta agttccttta agtntgtct tgttattttt tggggctgaa acctaaacca 300
 taaaattctt caaaaatatt aaagt 325

<210> 13011
 <211> 401
 <212> DNA
 <213> Glycine max

<400> 13011

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 atatccttaa ggaattttgg agctctggaa ttgttttggg aataagtgtg gggagttttt 180
 gtttcattgg acaacttggt ttgttggcta agcttcatga tgtaatttgg gccatactcg 240
 atgtacattg tatattgagt aaatgttaga catgctgaat gaaattatgt ttctcaaaga 300
 ccaaagagta aaaaataata aaaaaaatc ggataaagaa aaagataagc aataatgttg 360
 agtgaataag atcttaaatg gcacacgatt gatgaaactc t 401

<210> 13012
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 13012

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cgacatccct ttgagcataa tcttgagggt ctttggggac ttcttcaggc tgttgaggag 180
gctctctttc aaggactgga gaagcaatat ggcccgcac gtcttgcaag acgggcgggtg 240
agtaattgtg cagcaatcca taacggtaag ccgctcggtt gtatcccagg tgagggctgc 300
catagtgcc cagtgtgtcc ctccccgct ctactatg 338

<210> 13013

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13013

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aaagaagaat gaaagctatg ccaatcaagc ccaaaagaaa aggaaggaag tggacttga 180
acccggtgat gatcttgac atttgacgac aaatgttctc caagaaggag ggaatgatga 240
gaatcatgaa acatgccana tacagtctaa aggcccaagt ggagaatgac gaatgccccaa 300
ttggataatg acaaatcccc cgagtggaga atgatgaatg cccaagtgga 350

<210> 13014

<211> 337

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 13014

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ggagaatccg atttgaggac aaatccttct catgagggag agaattgatga tgacatgacc 180
aagaacaagg gctaggatcc acttgaagga cttggaggac ctatgacaag ggctagaaca 240
aggaaagcca aagaagctct tcaacaagtg ttgtccatac tatttgaata cacaccacg 300